

2017-2018 Kindergarten Immunization Assessment – Executive Summary

California Department of Public Health, Immunization Branch

Immunization requirements for school entry help protect children and communities from vaccine-preventable diseases. Each autumn California schools are required to report to the California Department of Public Health (CDPH) the status of their students under state immunization requirement laws. In recent years there have been changes to these laws and how public health departments assist schools to implement them. In 2014 and 2015 Assembly Bill (AB) 2109 added requirements for exemptions to required immunizations based on personal beliefs. 2017-2018 is the second full school year that entrants have been subject to Senate Bill (SB) 277, which no longer permits them to receive such personal beliefs exemptions (PBEs). Beginning in the 2015-2016 school year, many public health departments in California have assisted schools in correctly identifying and supporting eligible students, described as conditional entrants, who catch up with immunization requirements after entry.

The proportion of students attending kindergarten in 2017-2018 reported to have received all required vaccines is 95.1%, a 0.4 percentage point decrease (difference of unrounded values) from the 2016-2017 school year and a 4.7 percentage point increase over the three years since 2014-2015. The 2017-2018 rate of 95.1% is the second highest reported for the current set of immunization requirements for kindergarten, which began in the 2001-2002 school year.

Completion rates for each specific immunization series decreased between 0.2 percentage points for Hepatitis B to 0.5 percentage points for Diphtheria, Tetanus and Pertussis (DTP) vaccine and Polio vaccine. In 2017-2018, 16 (28%) counties report fewer than 95% of their kindergartners as having had two doses of Measles, Mumps and Rubella (MMR) vaccine, compared to 14 (24%) counties in 2016-2017 and 31 (53%) counties in 2015-2016.

The proportion of kindergartners reported as conditional entrants declined from 1.9% in 2016-2017 to 1.8% in 2017-2018, a 0.1 percentage point decrease over one year and a 5.0 percentage point decrease over the three years since 2014-2015. The present rate of 1.8% is the lowest reported for the current set of immunization requirements for kindergarten.

Because of SB 277, the proportion of kindergartners reported with PBEs decreased in 2017-2018 from 0.6% to 0.0%. Previously during measures specified in AB 2109, the rate of PBEs had decreased from 3.2% in 2013-2014 to 2.4% in 2015-2016.

Compared to 2016-2017, in 2017-2018 the proportion of kindergartners reported as:

- Having permanent medical exemptions increased from 0.5% to 0.7%.
- Lacking immunizations for other reasons specified under SB 277 increased from 0.5% to 1.1%, with 0.8% reported as being enrolled in independent study programs.
- Being overdue for required immunizations increased from 1.0% to 1.2%.

Possible explanations for the overall improvements in recent years in the reported immunization coverage of kindergartners in California include, but are not limited to:

- Efforts by public health departments, schools, medical providers and partner organizations to help ensure that children meet school immunization requirements.
- Increased public awareness about the importance of immunizations in the aftermath of outbreaks of vaccine-preventable diseases.
- The recent laws, SB 277 and AB 2109.
- Review of eligible schools in 2016 and 2017 for compliance with immunization laws, as a component of comprehensive state-mandated financial audits of local education agencies.

CDPH and local health departments in California continue to closely monitor immunization coverage and to support schools in protecting the health of their students and communities.

2017-2018 Kindergarten Immunization Assessment – Technical Notes

Introduction

Each autumn all schools with kindergartens in California are required to report student compliance with California School Immunization Laws (California Health and Safety Code Sections 120325-120375). This report summarizes data for the 2017-2018 school year reported by public and private kindergartens statewide (Table 1, Figures 1-8) and by county (Tables 2-11).

In the 2014-2015 and 2015-2016 school years, entrants were subject to [Assembly Bill \(AB\) 2109](#), which added requirements for exemptions to required immunizations based on personal beliefs. 2017-2018 is the second full school year that entrants have been subject to [Senate Bill \(SB\) 277](#), which no longer permits them to receive such personal beliefs exemptions (PBEs).

Starting in the 2015-2016 school year, many public health departments in California have worked with schools to improve their application of the [Conditional Admission Immunization Schedule](#) for the conditional admission of eligible students.

Many California schools offer a multiyear kindergarten curriculum in which children as young as 4 years of age may receive an initial year of transitional kindergarten. Very few children attend more than two years of kindergarten under these programs.

Methods

During the autumn of 2017, California schools registered with the California Department of Education reported data on kindergarteners in the 2017-2018 school year to the California Department of Public Health (CDPH). Based on their immunization status, students were classified by school staff into the following categories:

- Received all required immunizations, including the following doses:
 - 4 or more of Diphtheria, Tetanus and Pertussis (DTP) vaccine
 - 3 or more of Polio vaccine
 - 2 or more of Measles, Mumps and Rubella (MMR) vaccine
 - 3 or more of Hepatitis B (Hep B) vaccine, and
 - 1 or more of Varicella (Var) vaccine or a history documented by a physician of having had chickenpox.
- Conditional entrants who had:
 - Not received all required doses but were not overdue for required doses, or
 - A temporary medical exemption to one or more required immunizations.Conditional entrants are required to receive additional doses after entry.
- Have a permanent medical exemption (PME) to one or more required immunizations.
- Entered a multiyear kindergarten program prior to 2016-2017 school year with a personal beliefs exemption (PBE) and continued in kindergarten during the 2017-2018 school year. Under SB 277, PBEs no longer have been an option for children who have entered kindergarten since the 2016-2017 school year.
- Other students lacking immunizations. Under SB 277, entrants since the 2016-2017 school year have not been required to have immunizations if they attend:
 - A home-based private school or
 - An independent study program and do not receive classroom-based instruction.

- In addition, students who have an individualized education program (IEP) may continue to receive all necessary services identified in their IEP regardless of their immunization status.

Students in these settings were classified in this category if they lacked required immunizations and did not meet the criteria for other categories.

- Children overdue for one or more required immunizations and subject to exclusion from school until the overdue requirements have been met.

To simplify reporting, in 2015-2016 and earlier school years any immunizations received by children with PBEs or PME's were not reported in the completion rates of each specific required immunization series (e.g., 4+ DTP, 2+ MMR, etc.). To improve accuracy, CDPH has requested schools to include these doses when reporting completion rates of specific immunizations since the 2016-2017 school year.

Due to rounding, figures may differ from the sums of their components. Differences were calculated between exact figures, varying at times by 0.1% from the differences between rounded figures.

Results

The number of kindergarteners in California whose immunization status was reported increased from 562,924 in 2016-2017 to 564,121 in the 2017-2018 school year (Table 1). The increase reflects reporting from public schools, as the number of students reported from private schools was 42,298 in 2016-2017 and 42,039 in 2017-2018. The number of schools that reported increased from 7,820 in 2016-2017 to 7,957 in 2017-2018, and the number of schools that did not report decreased from 446 to 238 (Tables 1 and 2). The number of public schools that reported increased from 5,967 in 2016-2017 to 6,074 in 2017-2018 (Tables 1 and 2). The number of private schools that reported increased from 1,853 in 2016-2017 to 1,883 in 2017-2018. Private schools account for 7% (42,039/564,121) of all kindergarteners about whom data was reported in 2017-2018, 24% (1,883/7,957) of all schools that reported data on kindergarteners and 81% (192/238) of schools that did not report.

Figures 1-5 show trends for students in public and private schools reported as having: received all required immunizations; entered conditionally; PME's; PBE's; and completed specific immunization series. Figures 6-8 display for recent school years the distribution of major reporting categories for students reported from: all schools; public schools; and private schools.

All required immunizations: Of 564,121 kindergarteners whose schools reported their status, 536,642 (95.1%) had received all required immunizations, a decrease from the previous school year of 0.4 percentage points (Tables 1 and 5) and an increase over three school years of 4.7 percentage points (Figures 1 and 6). Compared to the 2016-2017 school year, the percentage of students with all required immunizations decreased by at least 1% in 22 (38%) of 58 counties and increased by at least 1% in 10 (17%) counties (Table 5). For counties reporting at least 25 students, the highest rates, at greater than 98%, were reported in Colusa, Glenn, San Benito, Tulare, Modoc and Inyo counties (Tables 3-5).

In 2017-2018 nine (16%) of 58 counties in California have rates of kindergarteners with all required vaccines that are below 90%, the same number as in 2016-2017 (Tables 4 and 5, Figure 9). The rate in at least one of these, Sutter County, is influenced by online or virtual schools that are based in the county but that enroll children who reside mostly in other counties; many students in virtual schools qualify for exemptions from requirements under SB 277 (see

Methods and below). At traditional classroom-based schools in Sutter County, 97.5% (1,512/1,551) of kindergartens were reported as receiving all required immunizations, compared to 28.3% (170/601) enrolled at virtual schools based in the county and 78.2% (1,682/2,152) at all schools, traditional and virtual; of all students reported at kindergartens based in Sutter County, 28% (601/2,152) attend virtual schools.

As in past years, a higher proportion of students in public compared to private schools were reported as having had all required immunizations (95.3% vs. 92.9%; difference of 2.4 percentage points) (Table 1, Figures 7 and 8). However, this gap is smaller in 2017-2018 than it was in 2016-2017 (95.9% vs. 91.6%; difference of 4.3 percentage points), as there was a one-year decrease of 0.6 percentage points for students in public schools and an increase of 1.3 percentage points for those in private schools.

The effects of increased reporting were examined. For schools that reported both in 2016-2017 and 2017-2018, 95.2% of students are classified as having received all required vaccines, compared to 89.2% of students at schools that reported in 2017-2018 but not in 2016-2017.

Specific immunizations: Completion rates for specific immunizations varied between 96.4% for DTP vaccine and 98.2% for varicella vaccine (Tables 1 and 11, Figure 5). The rates decreased between 0.2 percentage points for Hep B vaccine to 0.5 percentage points for DTP and Polio vaccines. Rates for receipt remain higher in public schools; for MMR, 97.0% of students at public schools and 95.0% at private schools were reported as having received two doses, a change from 2015-2016 respectively of -0.6 percentage points and +0.6 percentage points. In 2017-2018, 16 (28%) counties report fewer than 95% of their kindergarteners as having had two doses of MMR (Table 11, Figure 10), compared to 14 (24%) counties in 2016-2017 and 31 (53%) counties in 2015-2016.

Conditional entrants: Over the last three school years, the proportion of students reported as conditional entrants decreased from 6.9% in 2014-2015 to 1.8% in 2017-2018 (Table 1, Figures 2 and 6). Compared to the 2016-2017 school year, the proportion of conditional entrants in 2017-2018 decreased by 0.1 percentage point. The rate of conditional entrants decreased in both public (-0.1 percentage points) and private (-0.2 percentage points) schools (Table 1). Of 58 counties, at least 22 (38%) reported overall reductions in the proportion of conditional entrants, with the largest reductions reported for Modoc (-20.7 percentage points) and Mendocino (-4.6 percentage points) counties (Table 6). Of the 1.8% of students reported as conditional entrants in 2017-2018, 0.3% were reported as having had a temporary medical exemption, compared to 0.2% in 2016-2017.

PMEs: The percentage of students with PMEs increased from 0.5% in 2016-2017 to 0.7% in 2017-2018 (Tables 1 and 7, Figure 3). In public schools, the number of students reported with PMEs increased from 2,252 (0.4%) to 3,230 (0.6%) (Figure 7), while for private schools, the number of students increased from 598 (1.4%) to 881 (2.1%) (Figure 8).

PBEs: With the option of PBEs available to prior entrants but no longer to new entrants under SB 277, the percentage of kindergarteners with PBEs in 2017-2018 is 0.0%, compared to 0.6% in 2016-2017, 2.4% in 2015-2016 and 3.2% in 2013-2014 (Figures 4 and 6, Table 8). Five children (0.0%, Table 3) were reported as being in a multiyear kindergarten program in 2017-2018 with a PBE and enrollment prior to 2016. In 2017-2018 PBE rates declined over one year by 1.4 percentage points in private schools and 0.5 percentage points in public schools (Table 1, Figures 7 and 8).

Other students lacking required immunizations: The proportion of kindergarteners reported to be lacking one or more required immunizations and to attend an independent study program and do not receive classroom-based instruction, attend a home-based private school, or receive services in an IEP (Tables 1 and 9) increased from 0.5% in 2016-2017 to 1.1% in 2017-2018. Children reported as being enrolled in independent study programs accounted for most students in this category (0.8% of 1.1%) and for most of the increase compared to the previous year (0.5 of the 0.6 percentage point increase). More than 90% of the increase in the number of children enrolled in independent study programs and lacking immunizations were reported from schools based in six counties: Los Angeles, San Diego, Sutter, Fresno, El Dorado and Placer. Some of these students reside in other counties and are enrolled in virtual schools.

Overdue: The percentage of students reported as being overdue for one or more immunizations (Tables 1 and 3) increased from 1.0% in 2016-2017 to 1.2% in 2017-2018 (Table 1, Figure 6). In public schools the number of students reported as overdue increased from 4,950 (1.0%) to 6,375 (1.2%) (Figure 7). For private schools the number of students reported as overdue decreased from 700 (1.7%) to 545 (1.3%) (Figure 8).

Combined categories: Kindergarteners who are required to receive all mandated vaccines are reported in three categories: having received all required vaccines; conditional entrants; and being overdue for required doses. The kindergarteners who were reported in the sum of these three categories decreased by 0.3 percentage points from 98.5% in 2016-2017 to 98.2% in 2017-2018.

Conversely the sum of kindergarteners reported as not having to receive all required immunizations in elementary school because of PMEs; PBEs; or for other criteria specified in SB 277, increased by 0.3 percentage point from 1.5% in 2016-2017 to 1.8% in 2017-2018; the combined rate for public schools increased from 1.4% to 1.8% and for private schools decreased from 3.3% to 2.6%.

Discussion

The rates for immunization categories reported for the 2017-2018 school year are more similar to those in 2016-2017 than to prior years. Compared to 2016-2017, the proportion of students reported to enter kindergarten in California in 2017-2018 after receiving all required immunizations decreased by 0.4 percentage points to 95.1%, following an increase by 5.2 percentage points between the two prior school years from 2014-2015 to 2016-2017. The 2017-2018 rate of 95.1% is the second highest reported to CDPH since varicella vaccine became the most recent addition to the immunizations required for kindergarteners, which began in the 2001-2002 school year. The number of kindergarteners (564,121) and public schools (6,074) whose status was reported in 2017-2018 are the largest reported during the period starting in 2001-2002. Inclusion of schools with lower immunization rates that did not report in 2016-2017 contributed to the small decrease in coverage reported in 2017-2018.

The proportion of conditional entrants decreased by 0.1 percentage point in 2017-2018 after a decrease of 5.0 percentage points in the two school years between 2014-2015 and 2016-2017. The current reported rate of conditional entrants, 1.8%, is the lowest reported for the current panel of required immunizations in place since the 2001-2002 school year.

Since 2015 local health departments and CDPH have intensified efforts to educate school staff on the proper use of conditional admission criteria based on the [Conditional Admission Immunization Schedule](#). In addition, state-mandated annual financial and compliance audits of

local education agencies for the 2015-2016 and 2016-2017 school years inspected reimbursement for attendance at schools with higher rates of conditional admission. It is likely that these measures to promote compliance have contributed to the decreases in students reported as conditional entrants. These changes might also be attributable to an increased awareness of the risks of vaccine-preventable diseases and benefits of immunization, triggered in part by the measles outbreak that began in December 2014¹.

It is possible that children who in previous school years would have been inaccurately categorized as conditional entrants represent some of the 1.2% of entrants reported as overdue in 2017-2018. Continued efforts to educate schools and support immunization services might further reduce the number of children who in future years are categorized either as conditional entrants or overdue; in sum these categories account for 3.0% of kindergarteners reported in 2017-2018, similar to the rate of 2.9% reported in 2016-2017.

With the additional measures required under AB 2109 for requesting PBEs during 2014 and 2015, the rate of PBEs decreased from 3.2% in 2013-2014 to 2.4% in 2015-2016. With the implementation of SB 277 and the cessation of PBEs for new (but not prior) entrants, the percentage of kindergarteners with PBEs in 2017-2018 has decreased to 0.0%. The residual number of five children in multiyear kindergarten programs reported as having a PBE in 2017-2018 (Table 3) is expected to fall to zero in future years.

The proportion of children reported in other categories of exemptions increased in 2017-2018, as 1.1% lacked required immunizations under other criteria introduced in SB 277. Most (0.8% out of 1.1%) of these children were reported as being enrolled in independent study programs, representing an increase of 0.5 percentage points from 2016-2017. Another 0.7% were reported as having PME, an increase of 0.2% from 2016-2017. In sum, 1.8% of entrants were reported as not having had required immunizations because of PBEs, PMEs or other criteria related to SB 277, compared to 1.5% in 2015-2016. Future assessments will continue to follow the trends for these measurements.

Children in schools and communities with lower immunization rates remain at higher risk of contracting and transmitting vaccine preventable diseases. In both the 2016-2017 and 2017-2018 school years, nine (16%) of 58 counties in California have had rates of kindergarteners with all required vaccines that are below 90% (Figure 9). 16 (28%) counties, compared to 14 (24%) in 2016-2017 and 31 (53%) in 2015-2016, report fewer than 95% of their kindergarteners as having had two doses of MMR (Table 11, Figure 10), an approximate threshold necessary to prevent the transmission of measles. In addition, recent changes to California's school immunization laws did not apply to earlier cohorts of children who are no longer of school age. Unimmunized older children and adults were amongst those who caught measles during recent outbreaks in California. For these individuals, decisions that were made in previous decades to not immunize have had lingering consequences for themselves and their communities.

Limitations

This report is subject to limitations that include:

- 238 California elementary schools, including 192 private schools and 46 public schools, did not report their immunization data; in the absence of reporting, CDPH does not know how many of them enrolled kindergarteners this year or the immunization status of their kindergarteners.

¹ https://www.cdc.gov/mmwr/preview/mmwrhtml/mm6406a5.htm?s_cid=mm6406a5_w

- As in previous years, private home schools that did not register with the California Department of Education may not have reported data to CDPH, which would result in continued underestimates of their enrollment.
- Eighteen schools, including at least eight virtual schools, registered with the California Department of Education as public schools, and which appear to enroll both public and private students, reported 378 students as attending home-based private schools. In this report these students are classified as attending public schools. Any misclassification of enrollment between public and private schools, or between independent study and home-based schools, has not affected the total of students in the category of other students lacking immunization, but has affected the subcategories.
- Part of the relative improvements in the completion rates of specific vaccines starting in the 2016-2017 school year may have been due to the inclusion in reporting of doses received by partially immunized children who had PBEs or PME to other required immunizations. In reporting to CDPH during prior school years, doses received by children with exemptions were not included in completion rates for any specific vaccine. This may have resulted in underestimates of completion rates for specific vaccines in prior years and overestimates of their increases between recent and prior years. The magnitude of the resultant increase to the rate of any immunization series in 2017-2018 resulting from this change in reporting could be no greater than 1.8%, the total of students reported in categories as not having to receive all required immunizations (PMEs, PBEs or other criteria specified in SB 277). This reporting change should not have affected rates, or changes in rates, for the category of having received all required vaccines.
- The timing of immunization is often not included in the assessment criteria; if doses were given at inappropriate ages or intervals, the reported rates may overestimate levels of immunity.
- It is possible that some immunization records provided to schools have been incomplete. The presence of incomplete records would underestimate immunization coverage. Any improvements over time in completion of records since the time of reporting would increase estimates of coverage.
- Changes over time in the quality of reporting by schools are another potential explanation for changes in immunization rates.

For further information, please contact CDPH Immunization Branch at SchoolAssessments@cdph.ca.gov.

For media inquiries, please contact CDPH Office of Public Affairs via e-mail cdphpress@cdph.ca.gov or phone 916-440-7259.

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Table 11. Number and Percentage of Students with Overdue Status in 2017-2018 and 2016-2017, and 1-Year Percentage Point Change, by County

Table 12. Number and Percentage of Students with Required Immunizations by Vaccine Series, by County

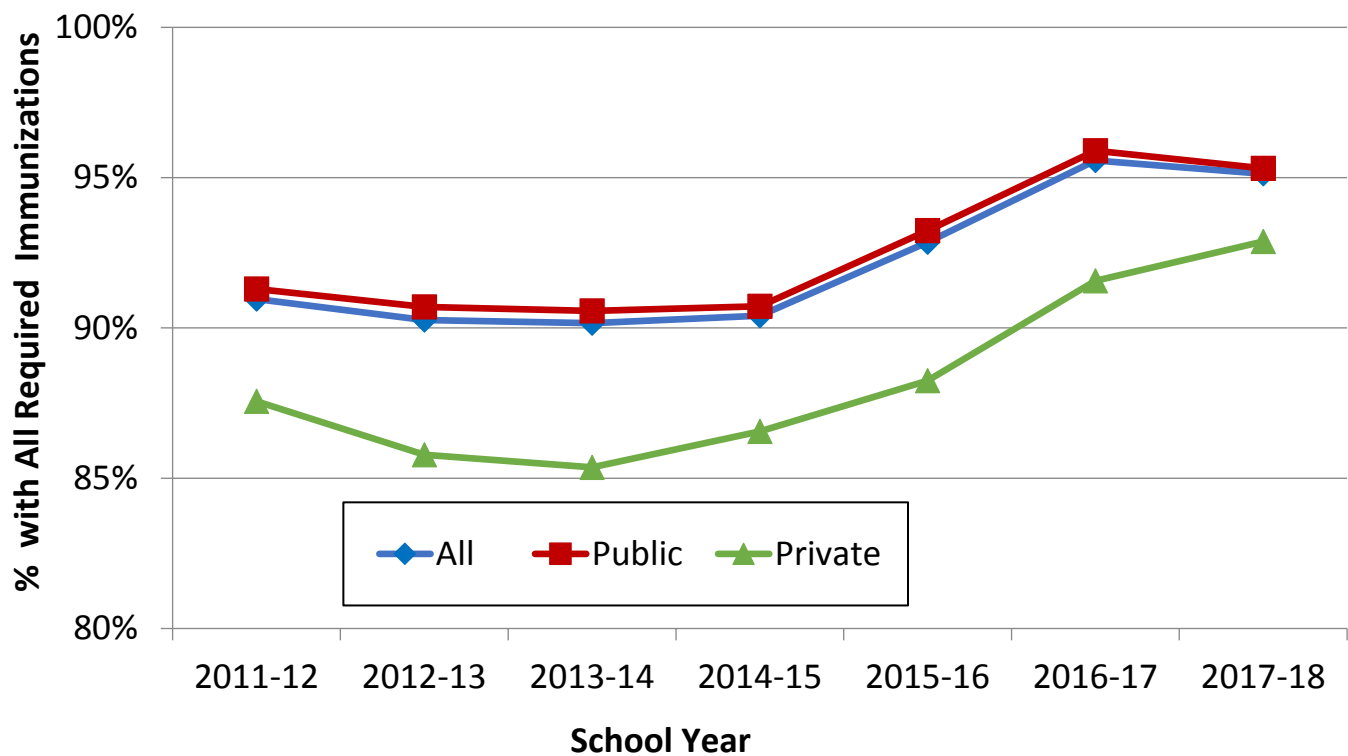


Figure 1. Percentage of Kindergarten Students with All Required Immunizations, by School Type and School Year, 2011-2012 to 2017-2018

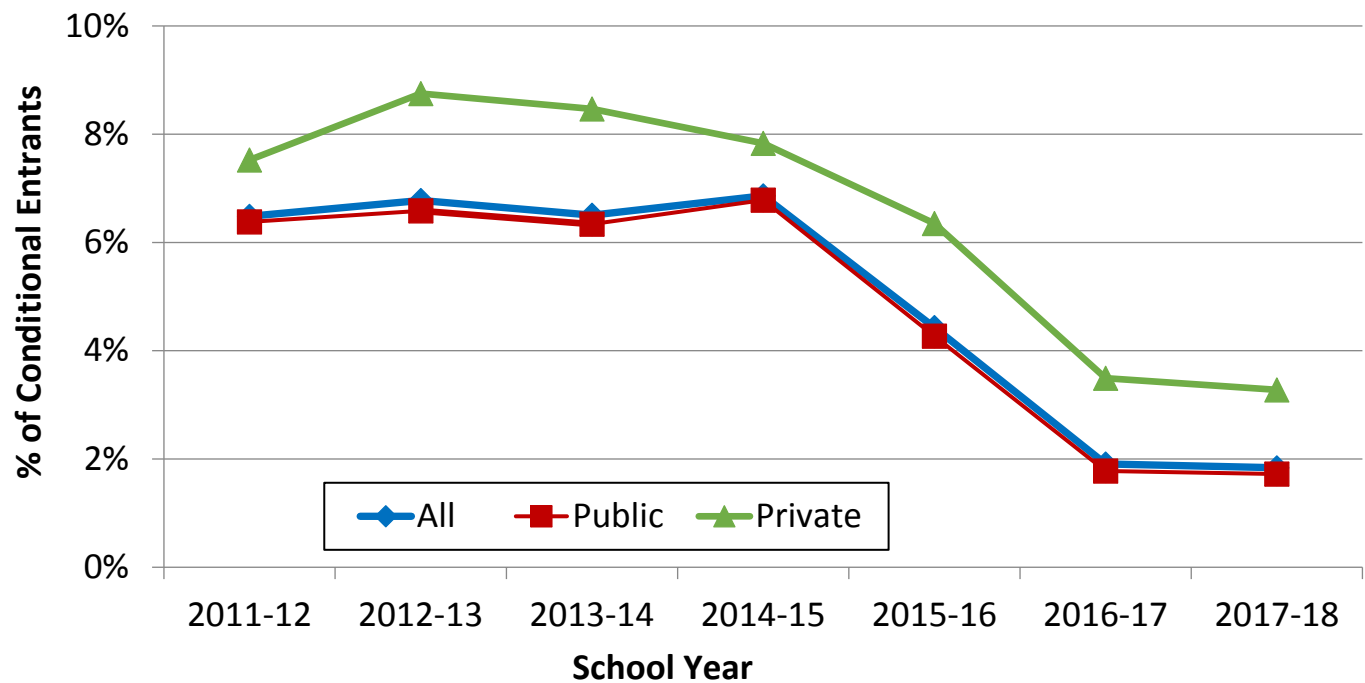


Figure 2. Percentage of Conditional Entrants into Kindergarten, by School Type and School Year, 2011-2012 to 2017-2018

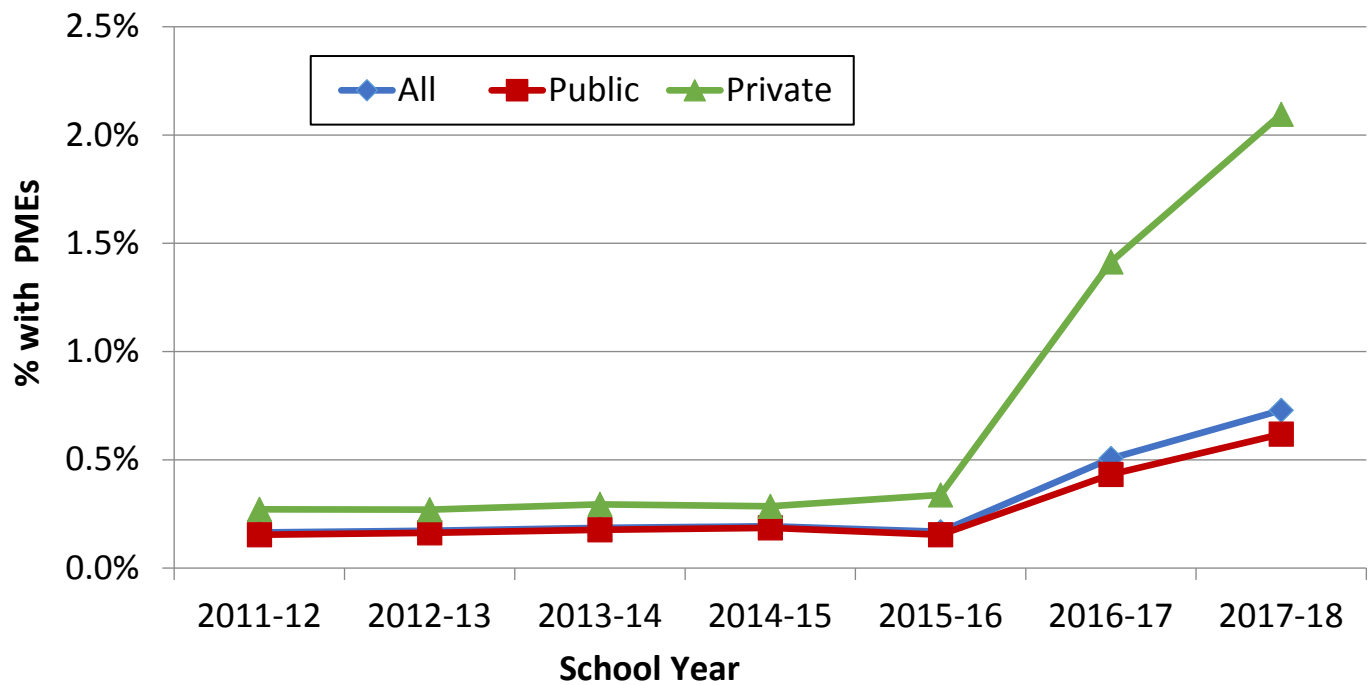


Figure 3. Percentage of Kindergarten Students with Permanent Medical Exemptions (PMEs), by School Type and School Year, 2011-2012 to 2017-2018

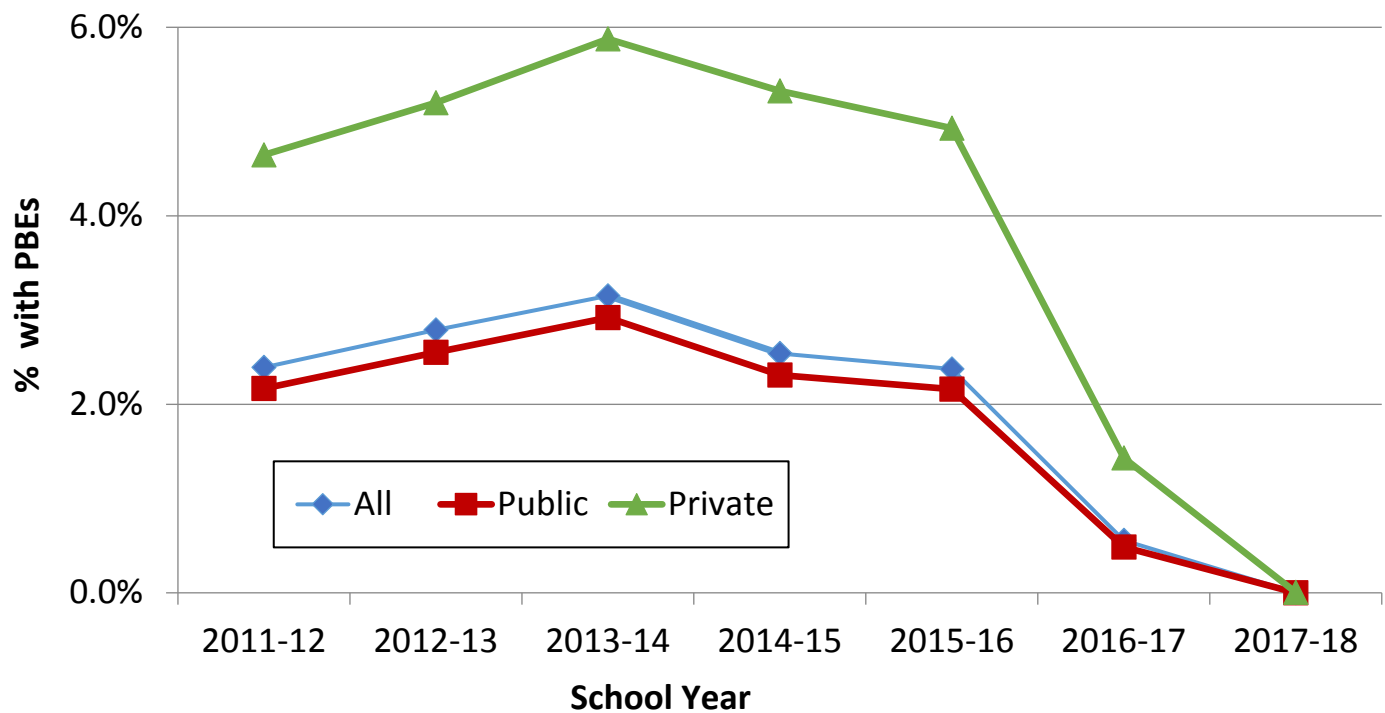


Figure 4. Percentage of Kindergarten Students with Personal Belief Exemptions (PBEs), by School Type and School Year, 2011-2012 to 2017-2018

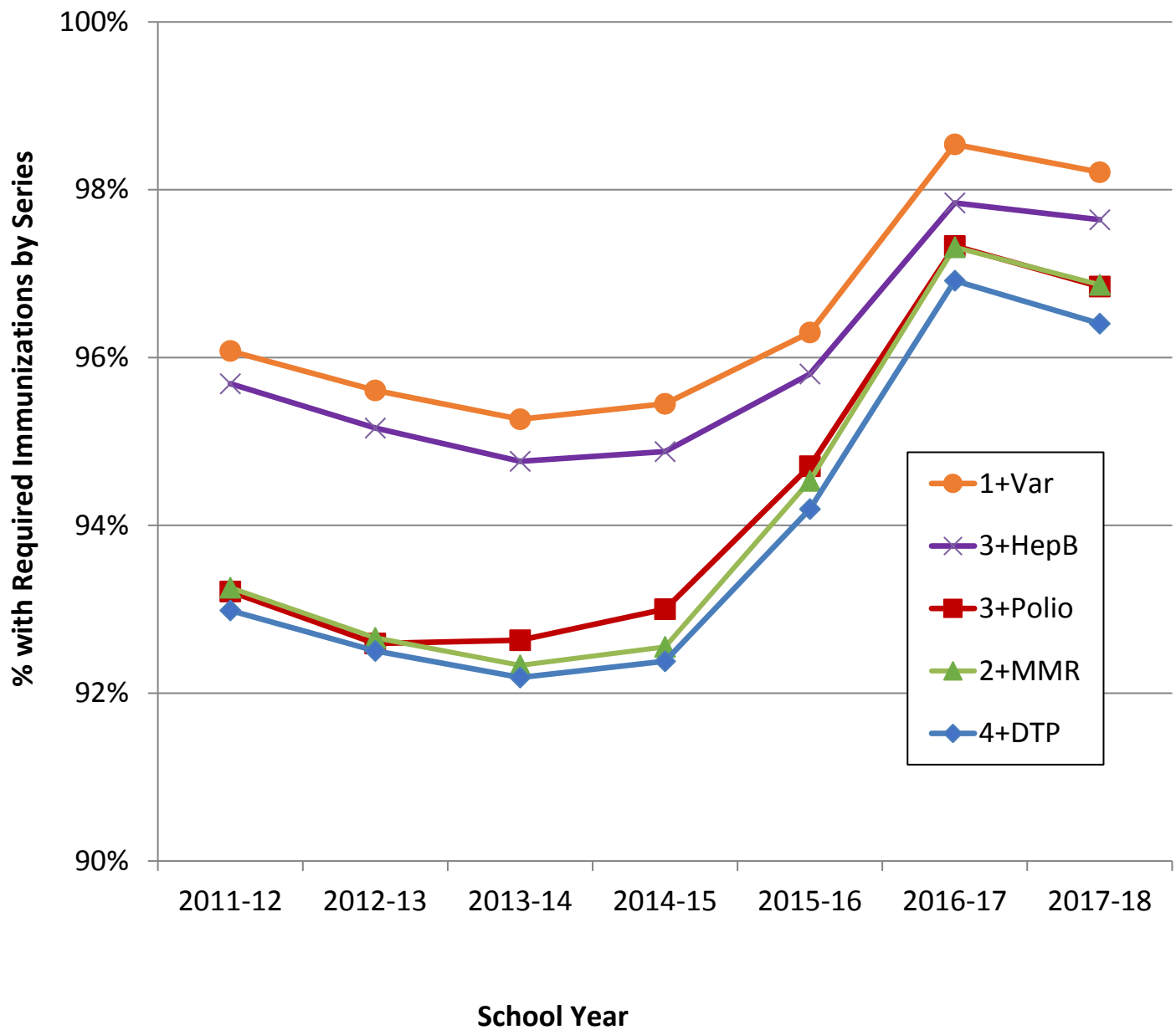
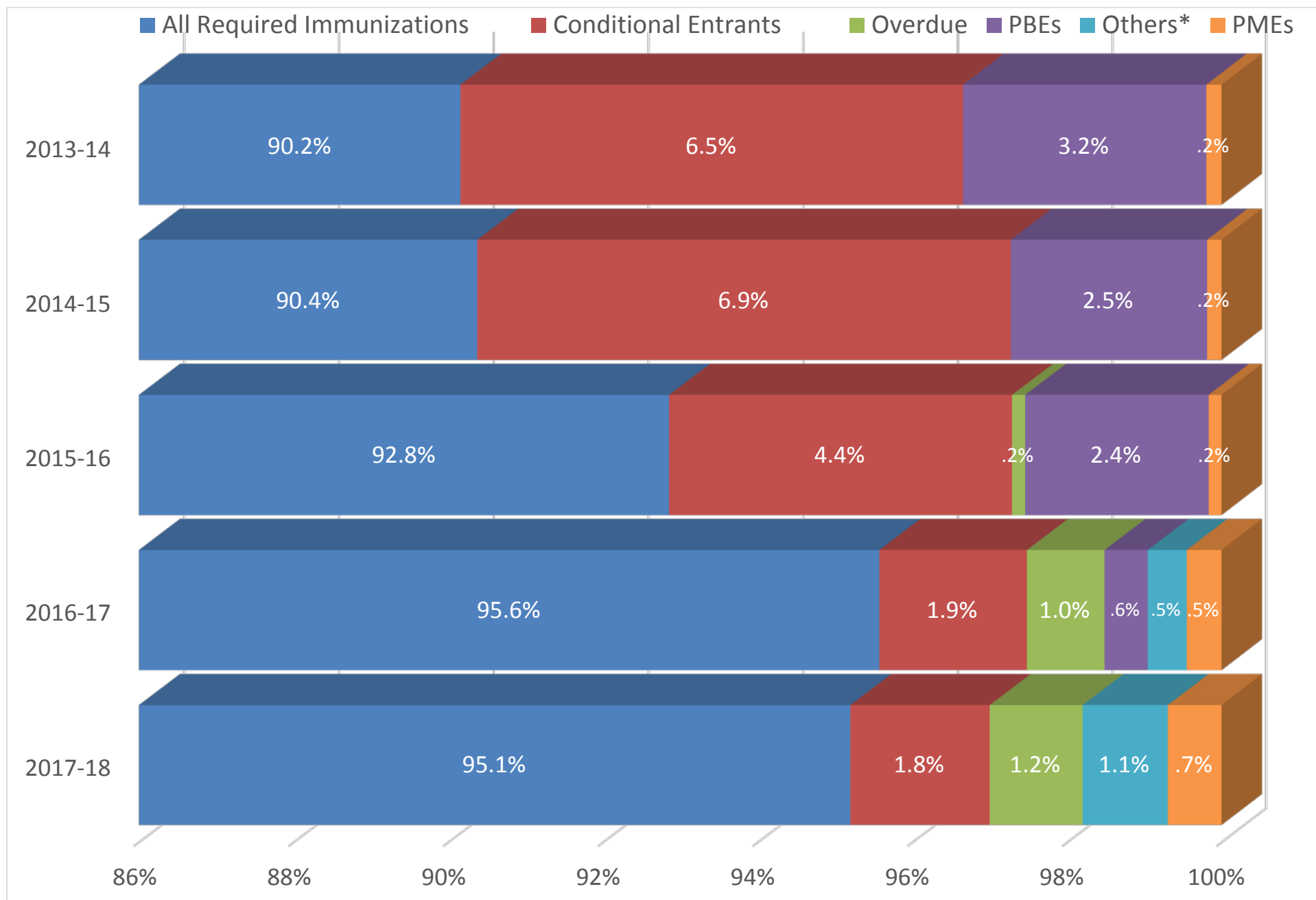
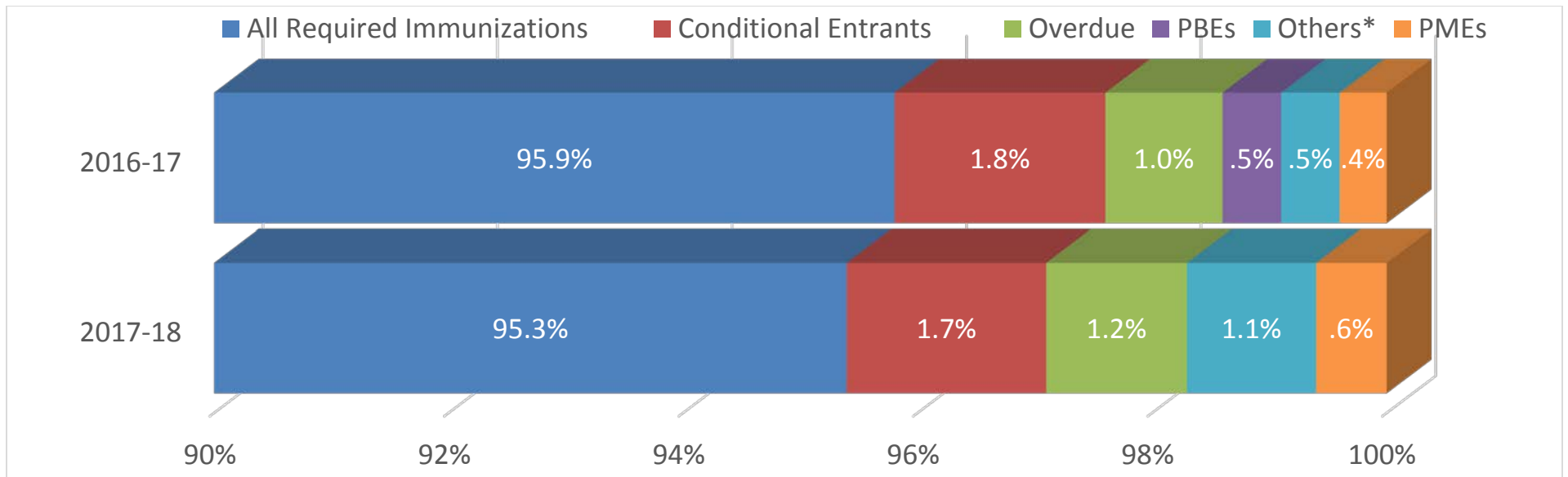


Figure 5. Percentage of Kindergarten Students with Specific Required Immunizations by Series and School Year, 2011-2012 to 2017-2018



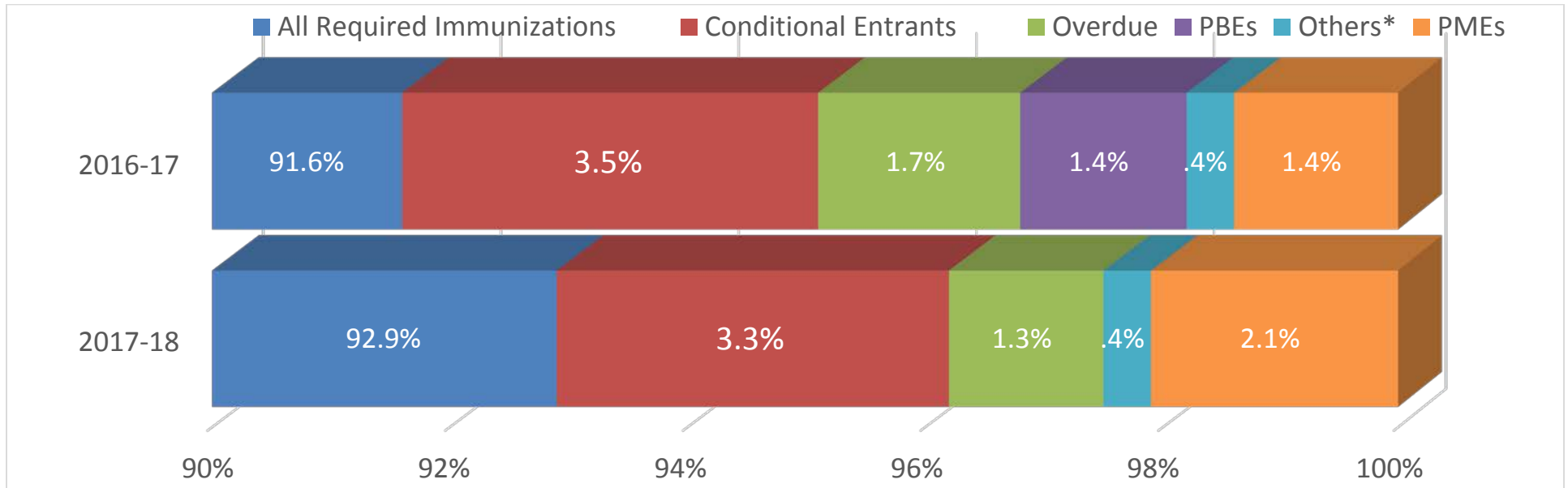
*Other children lacking required immunizations under criteria specified in SB 277.

Figure 6. Percentage of All Kindergarten Students by Reported Admission Status by School Year, 2014-2015 to 2017-2018. In the 2014-2015 and 2015-2016 school years, entrants were subject to AB 2109. Since the 2016-2017 school year, entrants have been subject to SB 277.



*Other children lacking required immunizations under criteria specified in SB 277.

Figure 7. Percentage of Public School Kindergarten Students by Reported Admission Status by School Year, 2016-2017 and 2017-2018



*Other children lacking required immunizations under criteria specified in SB 277.

Figure 8. Percentage of Private School Kindergarten Students by Reported Admission Status by School Year, 2016-2017 and 2017-2018

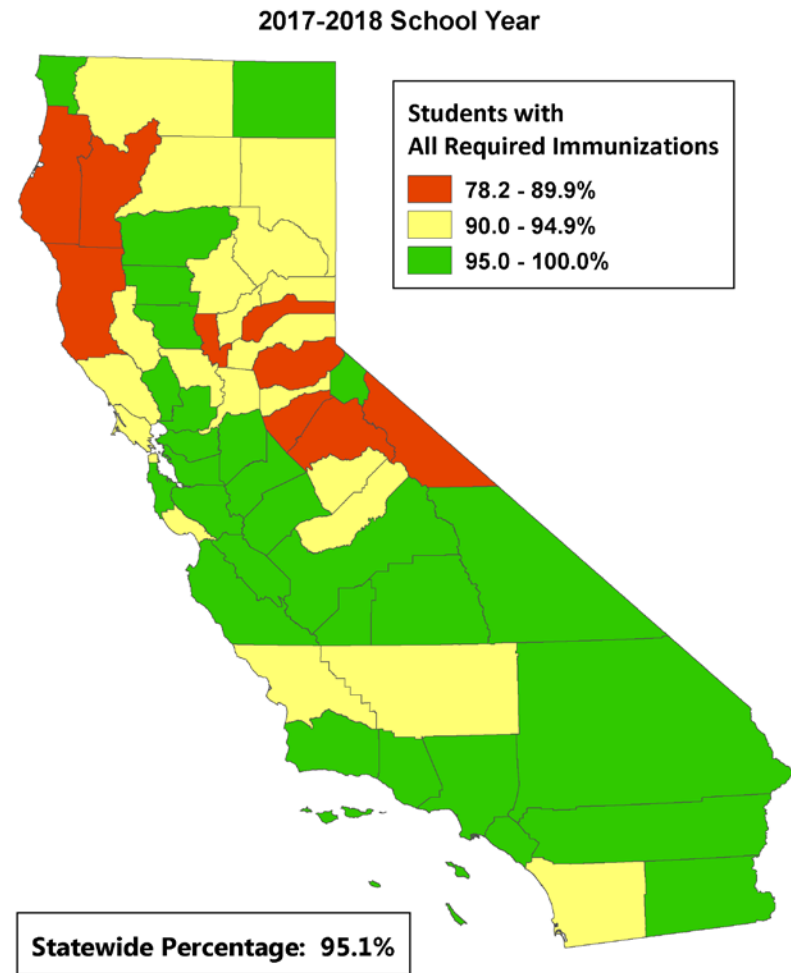
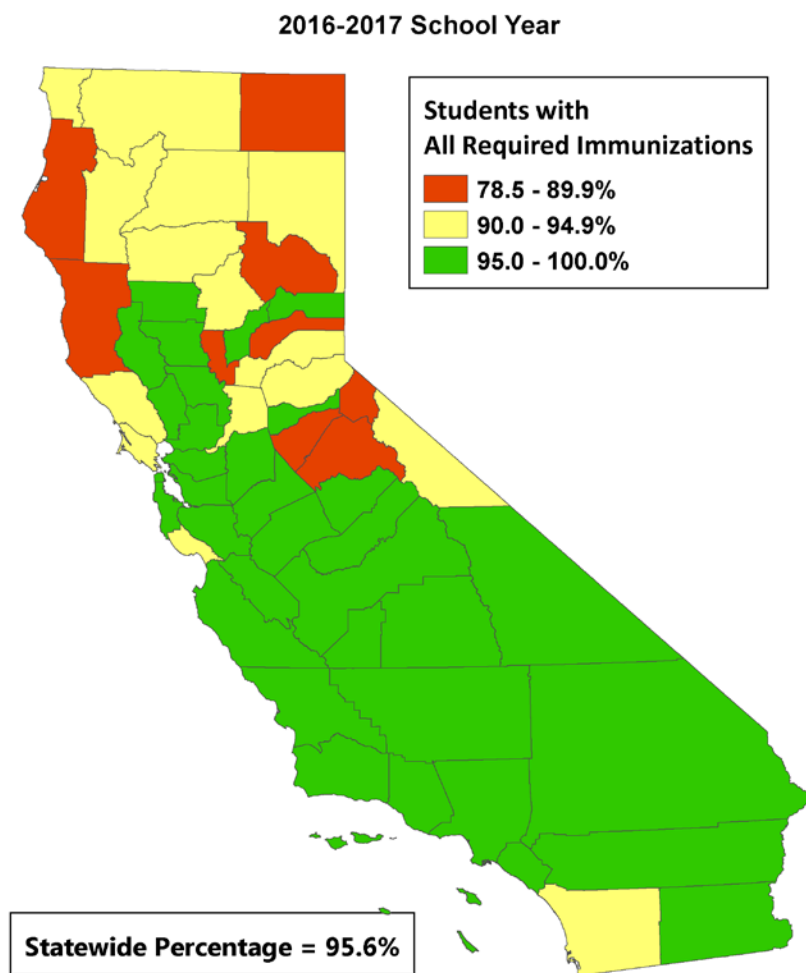


Figure 9. Kindergarten Students with All Required Immunizations, by County, 2016-2017 and 2017-2018 School Years
See pages 3 and 4 for additional information.

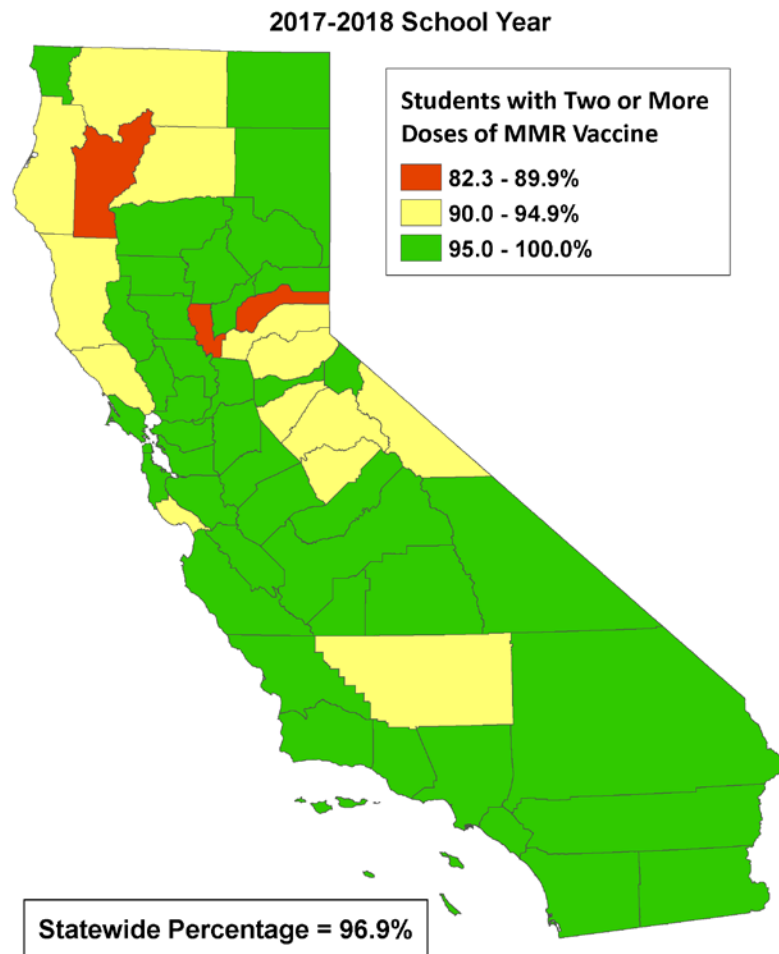
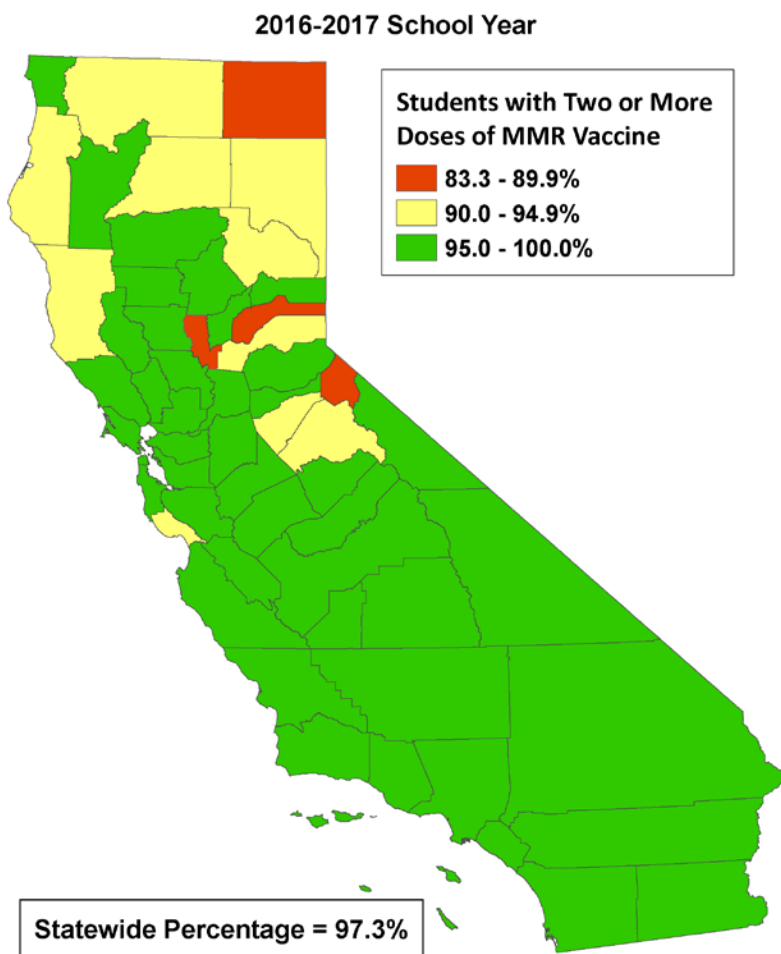


Figure 10. Kindergarten Students with Two or More Doses of MMR Vaccine, by County, 2016-2017 and 2017-2018 School Years

Table 1: Kindergarten Immunization Assessment Summary, 2016-2017 and 2017-2018 School Years

	2017-2018			2016-2017			1-Year Percentage Point Change*		
	All	Public	Private	All	Public	Private	All	Public	Private
Number of Schools Reporting Kindergarten Students	7,957	6,074	1,883	7,820	5,967	1,853			
Number of Kindergarten Students	564,121	522,082	42,039	562,924	520,626	42,298			
All Required Immunizations	95.1%	95.3%	92.9%	95.6%	95.9%	91.6%	-0.4%	-0.6%	1.3%
Conditional Entrants	1.8%	1.7%	3.3%	1.9%	1.8%	3.5%	-0.1%	-0.1%	-0.2%
Permanent Medical Exemptions	0.7%	0.6%	2.1%	0.5%	0.4%	1.4%	0.2%	0.2%	0.7%
Personal Belief Exemptions	0.0%	0.0%	0.0%	0.6%	0.5%	1.4%	-0.6%	-0.5%	-1.4%
Others Lacking immunizations†	1.1%	1.1%	0.4%	0.5%	0.5%	0.4%	0.6%	0.7%	0.0%
Overdue^	1.2%	1.2%	1.3%	1.0%	1.0%	1.7%	0.2%	0.3%	-0.4%
4+ DTP	96.4%	96.5%	95.0%	96.9%	97.1%	94.3%	-0.5%	-0.6%	0.8%
3+ Polio	96.8%	97.0%	95.0%	97.3%	97.6%	94.1%	-0.5%	-0.6%	0.8%
2+ MMR	96.9%	97.0%	95.0%	97.3%	97.6%	94.4%	-0.4%	-0.5%	0.6%
3+ Hep B	97.6%	97.8%	96.2%	97.8%	98.0%	95.4%	-0.2%	-0.3%	0.8%
1+ Var (or physician-documented disease)	98.2%	98.3%	96.7%	98.5%	98.7%	96.1%	-0.3%	-0.4%	0.5%

* Differences between exact percentages; may vary from the differences between the rounded percentages listed to the left in table.

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.

^ Overdue for one or more required immunizations.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018
TABLE 2: NUMBER AND PERCENTAGE OF SCHOOLS REPORTING IN 2017-2018,
BY COUNTY AND TYPE

	ALL			PUBLIC			PRIVATE		
	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING
STATE TOTAL	8,195	7,957	97.1%	6,120	6,074	99.2%	2,075	1,883	90.7%
COUNTY									
ALAMEDA	328	319	97.3%	227	225	99.1%	101	94	93.1%
ALPINE	1	1	100.0%	1	1	100.0%	0	0	0.0%
AMADOR	8	8	100.0%	7	7	100.0%	1	1	100.0%
BUTTE	59	59	100.0%	48	48	100.0%	11	11	100.0%
CALAVERAS	15	11	73.3%	12	11	91.7%	3	0	0.0%
COLUSA	7	7	100.0%	6	6	100.0%	1	1	100.0%
CONTRA COSTA	223	223	100.0%	164	164	100.0%	59	59	100.0%
DEL NORTE	11	11	100.0%	10	10	100.0%	1	1	100.0%
EL DORADO	43	43	100.0%	38	38	100.0%	5	5	100.0%
FRESNO	226	226	100.0%	202	202	100.0%	24	24	100.0%
GLENN	14	14	100.0%	11	11	100.0%	3	3	100.0%
HUMBOLDT	59	59	100.0%	52	52	100.0%	7	7	100.0%
IMPERIAL	47	47	100.0%	40	40	100.0%	7	7	100.0%
INYO	7	6	85.7%	6	6	100.0%	1	0	0.0%
KERN	184	183	99.5%	159	159	100.0%	25	24	96.0%
KINGS	38	38	100.0%	32	32	100.0%	6	6	100.0%
LAKE	17	17	100.0%	15	15	100.0%	2	2	100.0%
LASSEN	14	13	92.9%	14	13	92.9%	0	0	0.0%
LOS ANGELES	1,993	1,841	92.4%	1,347	1,322	98.1%	646	519	80.3%
MADERA	44	39	88.6%	40	36	90.0%	4	3	75.0%
MARIN	73	73	100.0%	47	47	100.0%	26	26	100.0%
MARIPOSA	10	8	80.0%	8	8	100.0%	2	0	0.0%
MENDOCINO	34	33	97.1%	29	28	96.6%	5	5	100.0%
MERCED	63	62	98.4%	53	53	100.0%	10	9	90.0%
MODOC	5	5	100.0%	4	4	100.0%	1	1	100.0%
MONO	6	6	100.0%	5	5	100.0%	1	1	100.0%
MONTEREY	95	95	100.0%	81	81	100.0%	14	14	100.0%
NAPA	39	39	100.0%	23	23	100.0%	16	16	100.0%
NEVADA	26	26	100.0%	22	22	100.0%	4	4	100.0%

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018
TABLE 2: NUMBER AND PERCENTAGE OF SCHOOLS REPORTING IN 2017-2018,
BY COUNTY AND TYPE

	ALL			PUBLIC			PRIVATE		
	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING
STATE TOTAL	8,195	7,957	97.1%	6,120	6,074	99.2%	2,075	1,883	90.7%
COUNTY									
ORANGE	601	601	100.0%	405	405	100.0%	196	196	100.0%
PLACER	95	95	100.0%	81	81	100.0%	14	14	100.0%
PLUMAS	9	7	77.8%	6	5	83.3%	3	2	66.7%
RIVERSIDE	400	383	95.8%	301	300	99.7%	99	83	83.8%
SACRAMENTO	303	301	99.3%	242	242	100.0%	61	59	96.7%
SAN BENITO	21	21	100.0%	16	16	100.0%	5	5	100.0%
SAN BERNARDINO	428	428	100.0%	352	352	100.0%	76	76	100.0%
SAN DIEGO	618	618	100.0%	480	480	100.0%	138	138	100.0%
SAN FRANCISCO	152	150	98.7%	77	77	100.0%	75	73	97.3%
SAN JOAQUIN	186	186	100.0%	162	162	100.0%	24	24	100.0%
SAN LUIS OBISPO	62	60	96.8%	47	47	100.0%	15	13	86.7%
SAN MATEO	164	164	100.0%	112	112	100.0%	52	52	100.0%
SANTA BARBARA	104	101	97.1%	80	80	100.0%	24	21	87.5%
SANTA CLARA	388	388	100.0%	263	263	100.0%	125	125	100.0%
SANTA CRUZ	64	63	98.4%	45	45	100.0%	19	18	94.7%
SHASTA	67	63	94.0%	53	52	98.1%	14	11	78.6%
SIERRA	3	3	100.0%	3	3	100.0%	0	0	0.0%
SISKIYOU	26	26	100.0%	24	24	100.0%	2	2	100.0%
SOLANO	83	73	88.0%	62	61	98.4%	21	12	57.1%
SONOMA	131	131	100.0%	110	110	100.0%	21	21	100.0%
STANISLAUS	132	122	92.4%	115	109	94.8%	17	13	76.5%
SUTTER	34	33	97.1%	31	31	100.0%	3	2	66.7%
TEHAMA	26	25	96.2%	23	23	100.0%	3	2	66.7%
TRINITY	8	8	100.0%	8	8	100.0%	0	0	0.0%
TULARE	126	121	96.0%	113	111	98.2%	13	10	76.9%
TUOLUMNE	17	17	100.0%	12	12	100.0%	5	5	100.0%
VENTURA	187	186	99.5%	135	135	100.0%	52	51	98.1%
YOLO	46	46	100.0%	35	35	100.0%	11	11	100.0%
YUBA	25	25	100.0%	24	24	100.0%	1	1	100.0%

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018
TABLE 3: TOTAL ENROLLMENT AND ADMISSION STATUS IN 2017-2018,
BY COUNTY

	TOTAL STUDENTS	STUDENTS WITH ALL REQUIRED IMMUNIZATIONS		CONDITIONAL ENTRANTS		STUDENTS WITH PME		STUDENTS WITH PBE		OTHERS LACKING REQUIRED IMMUNIZATIONS†		OVERDUE^	
	NUMBER	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL COUNTY	564,121	536,642	95.1%	10,371	1.8%	4,111	0.7%	5	0.0%	6,072	1.1%	6,920	1.2%
ALAMEDA	22,307	21,671	97.1%	259	1.2%	97	0.4%	0	0.0%	35	0.2%	245	1.1%
ALPINE	6	<20*	--*	<20*	--*	<20*	--*	<20*	--*	<20*	--*	<20*	--*
AMADOR	376	345	91.8%	17	4.5%	6	1.6%	0	0.0%	4	1.1%	4	1.1%
BUTTE	2,899	2,739	94.5%	72	2.5%	30	1.0%	0	0.0%	49	1.7%	9	0.3%
CALAVERAS	464	409	88.1%	26	5.6%	13	2.8%	0	0.0%	15	3.2%	1	0.2%
COLUSA	414	408	98.6%	4	1.0%	0	0.0%	0	0.0%	0	0.0%	2	0.5%
CONTRA COSTA	15,292	14,728	96.3%	297	1.9%	73	0.5%	0	0.0%	42	0.3%	152	1.0%
DEL NORTE	368	360	97.8%	6	1.6%	1	0.3%	0	0.0%	1	0.3%	0	0.0%
EL DORADO	2,360	2,114	89.6%	85	3.6%	47	2.0%	0	0.0%	113	4.8%	1	0.0%
FRESNO	18,573	17,845	96.1%	254	1.4%	44	0.2%	0	0.0%	178	1.0%	252	1.4%
GLENN	510	502	98.4%	3	0.6%	2	0.4%	0	0.0%	0	0.0%	3	0.6%
HUMBOLDT	1,762	1,557	88.4%	53	3.0%	86	4.9%	0	0.0%	52	3.0%	14	0.8%
IMPERIAL	3,362	3,287	97.8%	24	0.7%	6	0.2%	0	0.0%	8	0.2%	37	1.1%
INYO	221	217	98.2%	2	0.9%	1	0.5%	0	0.0%	0	0.0%	1	0.5%
KERN	17,580	16,267	92.5%	338	1.9%	69	0.4%	0	0.0%	77	0.4%	829	4.7%
KINGS	2,678	2,616	97.7%	48	1.8%	3	0.1%	0	0.0%	0	0.0%	11	0.4%
LAKE	850	798	93.9%	33	3.9%	10	1.2%	0	0.0%	6	0.7%	3	0.4%
LASSEN	326	309	94.8%	12	3.7%	4	1.2%	0	0.0%	1	0.3%	0	0.0%
LOS ANGELES	140,822	133,718	95.0%	2,390	1.7%	709	0.5%	2	0.0%	1,601	1.1%	2,402	1.7%
MADERA	2,778	2,629	94.6%	42	1.5%	12	0.4%	0	0.0%	34	1.2%	61	2.2%
MARIN	3,259	3,064	94.0%	109	3.3%	68	2.1%	0	0.0%	4	0.1%	14	0.4%
MARIPOSA	150	135	90.0%	7	4.7%	2	1.3%	0	0.0%	3	2.0%	3	2.0%
MENDOCINO	1,305	1,133	86.8%	52	4.0%	32	2.5%	0	0.0%	7	0.5%	81	6.2%
MERCED	5,421	5,239	96.6%	84	1.5%	15	0.3%	0	0.0%	33	0.6%	50	0.9%
MODOC	115	113	98.3%	1	0.9%	1	0.9%	0	0.0%	0	0.0%	0	0.0%
MONO	166	149	89.8%	9	5.4%	7	4.2%	0	0.0%	0	0.0%	1	0.6%
MONTEREY	7,161	6,939	96.9%	108	1.5%	50	0.7%	0	0.0%	7	0.1%	57	0.8%
NAPA	1,768	1,680	95.0%	42	2.4%	31	1.8%	0	0.0%	6	0.3%	9	0.5%
NEVADA	913	746	81.7%	39	4.3%	70	7.7%	0	0.0%	55	6.0%	3	0.3%

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.

^ Overdue for one or more immunizations.

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018
TABLE 3: TOTAL ENROLLMENT AND ADMISSION STATUS IN 2017-2018,
BY COUNTY

	TOTAL STUDENTS	STUDENTS WITH ALL REQUIRED IMMUNIZATIONS		CONDITIONAL ENTRANTS		STUDENTS WITH PME		STUDENTS WITH PBE		OTHERS LACKING REQUIRED IMMUNIZATIONS†		OVERDUE^	
	NUMBER	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL COUNTY	564,121	536,642	95.1%	10,371	1.8%	4,111	0.7%	5	0.0%	6,072	1.1%	6,920	1.2%
ORANGE	42,375	40,537	95.7%	948	2.2%	384	0.9%	0	0.0%	235	0.6%	271	0.6%
PLACER	6,296	5,814	92.3%	220	3.5%	127	2.0%	0	0.0%	89	1.4%	46	0.7%
PLUMAS	193	176	91.2%	4	2.1%	9	4.7%	0	0.0%	3	1.6%	1	0.5%
RIVERSIDE	35,453	34,206	96.5%	569	1.6%	208	0.6%	0	0.0%	146	0.4%	324	0.9%
SACRAMENTO	21,508	20,101	93.5%	631	2.9%	235	1.1%	0	0.0%	343	1.6%	198	0.9%
SAN BENITO	1,019	1,002	98.3%	9	0.9%	8	0.8%	0	0.0%	0	0.0%	0	0.0%
SAN BERNARDINO	33,825	32,638	96.5%	560	1.7%	91	0.3%	0	0.0%	311	0.9%	225	0.7%
SAN DIEGO	47,174	43,967	93.2%	899	1.9%	576	1.2%	0	0.0%	1,401	3.0%	331	0.7%
SAN FRANCISCO	6,701	6,356	94.9%	119	1.8%	48	0.7%	0	0.0%	0	0.0%	178	2.7%
SAN JOAQUIN	12,582	12,118	96.3%	179	1.4%	41	0.3%	0	0.0%	106	0.8%	138	1.1%
SAN LUIS OBISPO	3,074	2,913	94.8%	78	2.5%	46	1.5%	0	0.0%	18	0.6%	19	0.6%
SAN MATEO	9,361	9,073	96.9%	116	1.2%	44	0.5%	0	0.0%	8	0.1%	120	1.3%
SANTA BARBARA	6,632	6,402	96.5%	101	1.5%	64	1.0%	2	0.0%	44	0.7%	19	0.3%
SANTA CLARA	26,410	25,529	96.7%	322	1.2%	129	0.5%	0	0.0%	33	0.1%	397	1.5%
SANTA CRUZ	3,565	3,223	90.4%	79	2.2%	95	2.7%	0	0.0%	145	4.1%	23	0.6%
SHASTA	2,526	2,276	90.1%	130	5.1%	46	1.8%	0	0.0%	67	2.7%	7	0.3%
SIERRA	39	37	94.9%	1	2.6%	1	2.6%	0	0.0%	0	0.0%	0	0.0%
SISKIYOU	564	509	90.2%	19	3.4%	6	1.1%	0	0.0%	22	3.9%	8	1.4%
SOLANO	5,534	5,400	97.6%	92	1.7%	17	0.3%	0	0.0%	7	0.1%	18	0.3%
SONOMA	6,645	6,097	91.8%	171	2.6%	181	2.7%	1	0.0%	117	1.8%	78	1.2%
STANISLAUS	8,858	8,503	96.0%	182	2.1%	64	0.7%	0	0.0%	29	0.3%	80	0.9%
SUTTER	2,152	1,682	78.2%	20	0.9%	11	0.5%	0	0.0%	426	19.8%	13	0.6%
TEHAMA	1,033	989	95.7%	25	2.4%	7	0.7%	0	0.0%	8	0.8%	4	0.4%
TRINITY	71	60	84.5%	3	4.2%	5	7.0%	0	0.0%	2	2.8%	1	1.4%
TULARE	9,450	9,286	98.3%	84	0.9%	21	0.2%	0	0.0%	39	0.4%	20	0.2%
TUOLUMNE	620	536	86.5%	41	6.6%	7	1.1%	0	0.0%	15	2.4%	21	3.4%
VENTURA	12,056	11,557	95.9%	206	1.7%	120	1.0%	0	0.0%	101	0.8%	72	0.6%
YOLO	2,779	2,626	94.5%	111	4.0%	29	1.0%	0	0.0%	2	0.1%	11	0.4%
YUBA	1,420	1,306	92.0%	36	2.5%	2	0.1%	0	0.0%	24	1.7%	52	3.7%

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.

^ Overdue for one or more immunizations.

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018
TABLE 4: TOTAL ENROLLMENT AND ADMISSION STATUS, 2017-2018 AND 2016-2017,
BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS	STUDENTS WITH ALL REQUIRED IMMUNIZATIONS	CONDITIONAL ENTRANTS	STUDENTS WITH PME	STUDENTS WITH PBE	OTHERS LACKING REQUIRED IMMUNIZATIONS†	OVERDUE^
		NUMBER	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2017-18	564,121	95.1%	1.8%	0.7%	0.0%	1.1%	1.2%
	2016-17	562,924	95.6%	1.9%	0.5%	0.6%	0.5%	1.0%
COUNTY								
ALAMEDA	2017-18	22,307	97.1%	1.2%	0.4%	0.0%	0.2%	1.1%
	2016-17	21,910	97.2%	1.3%	0.3%	0.1%	0.1%	1.0%
ALPINE	2017-18	6	--*	--*	--*	--*	--*	--*
	2016-17	6	--*	--*	--*	--*	--*	--*
AMADOR	2017-18	376	91.8%	4.5%	1.6%	0.0%	1.1%	1.1%
	2016-17	290	96.2%	2.8%	0.0%	0.7%	0.3%	0.0%
BUTTE	2017-18	2,899	94.5%	2.5%	1.0%	0.0%	1.7%	0.3%
	2016-17	2,814	94.1%	2.2%	1.0%	0.6%	1.4%	0.6%
CALAVERAS	2017-18	464	88.1%	5.6%	2.8%	0.0%	3.2%	0.2%
	2016-17	462	89.6%	5.0%	0.6%	1.7%	3.0%	0.0%
COLUSA	2017-18	414	98.6%	1.0%	0.0%	0.0%	0.0%	0.5%
	2016-17	411	97.1%	1.0%	0.2%	0.0%	0.0%	1.7%
CONTRA COSTA	2017-18	15,292	96.3%	1.9%	0.5%	0.0%	0.3%	1.0%
	2016-17	15,434	97.0%	1.4%	0.4%	0.4%	0.2%	0.5%
DEL NORTE	2017-18	368	97.8%	1.6%	0.3%	0.0%	0.3%	0.0%
	2016-17	401	92.8%	3.2%	0.2%	0.0%	3.7%	0.0%
EL DORADO	2017-18	2,360	89.6%	3.6%	2.0%	0.0%	4.8%	0.0%
	2016-17	2,205	93.9%	3.3%	1.4%	1.1%	0.2%	0.1%
FRESNO	2017-18	18,573	96.1%	1.4%	0.2%	0.0%	1.0%	1.4%
	2016-17	18,779	97.1%	1.6%	0.2%	0.2%	0.2%	0.7%
GLENN	2017-18	510	98.4%	0.6%	0.4%	0.0%	0.0%	0.6%
	2016-17	481	97.3%	1.7%	0.2%	0.4%	0.0%	0.4%
HUMBOLDT	2017-18	1,762	88.4%	3.0%	4.9%	0.0%	3.0%	0.8%
	2016-17	1,799	86.7%	6.1%	0.9%	1.7%	3.9%	0.8%
IMPERIAL	2017-18	3,362	97.8%	0.7%	0.2%	0.0%	0.2%	1.1%
	2016-17	3,254	97.4%	1.0%	0.2%	0.1%	0.1%	1.3%
INYO	2017-18	221	98.2%	0.9%	0.5%	0.0%	0.0%	0.5%
	2016-17	212	95.3%	2.4%	0.9%	0.0%	0.0%	1.4%
KERN	2017-18	17,580	92.5%	1.9%	0.4%	0.0%	0.4%	4.7%
	2016-17	16,497	95.1%	2.6%	0.2%	1.4%	0.1%	0.7%

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.

^ Overdue for one or more immunizations.

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018
TABLE 4: TOTAL ENROLLMENT AND ADMISSION STATUS, 2017-2018 AND 2016-2017,
BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS	STUDENTS WITH ALL REQUIRED IMMUNIZATIONS	CONDITIONAL ENTRANTS	STUDENTS WITH PME	STUDENTS WITH PBE	OTHERS LACKING REQUIRED IMMUNIZATIONS†	OVERDUE^
		NUMBER	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2017-18	564,121	95.1%	1.8%	0.7%	0.0%	1.1%	1.2%
	2016-17	562,924	95.6%	1.9%	0.5%	0.6%	0.5%	1.0%
COUNTY								
KINGS	2017-18	2,678	97.7%	1.8%	0.1%	0.0%	0.0%	0.4%
	2016-17	2,731	97.6%	1.8%	0.2%	0.1%	0.0%	0.3%
LAKE	2017-18	850	93.9%	3.9%	1.2%	0.0%	0.7%	0.4%
	2016-17	840	96.4%	2.1%	0.7%	0.0%	0.5%	0.2%
LASSEN	2017-18	326	94.8%	3.7%	1.2%	0.0%	0.3%	0.0%
	2016-17	357	90.8%	2.0%	1.4%	1.1%	4.8%	0.0%
LOS ANGELES	2017-18	140,822	95.0%	1.7%	0.5%	0.0%	1.1%	1.7%
	2016-17	140,269	95.0%	2.0%	0.4%	0.5%	0.2%	1.9%
MADERA	2017-18	2,778	94.6%	1.5%	0.4%	0.0%	1.2%	2.2%
	2016-17	2,835	96.0%	1.4%	0.2%	0.1%	0.8%	1.4%
MARIN	2017-18	3,259	94.0%	3.3%	2.1%	0.0%	0.1%	0.4%
	2016-17	3,245	93.2%	3.1%	2.1%	1.2%	0.0%	0.5%
MARIPOSA	2017-18	150	90.0%	4.7%	1.3%	0.0%	2.0%	2.0%
	2016-17	19	--*	--*	--*	--*	--*	--*
MENDOCINO	2017-18	1,305	86.8%	4.0%	2.5%	0.0%	0.5%	6.2%
	2016-17	1,195	88.7%	8.5%	0.6%	1.1%	0.4%	0.7%
MERCED	2017-18	5,421	96.6%	1.5%	0.3%	0.0%	0.6%	0.9%
	2016-17	5,618	97.7%	1.5%	0.1%	0.0%	0.3%	0.4%
MODOC	2017-18	115	98.3%	0.9%	0.9%	0.0%	0.0%	0.0%
	2016-17	130	78.5%	21.5%	0.0%	0.0%	0.0%	0.0%
MONO	2017-18	166	89.8%	5.4%	4.2%	0.0%	0.0%	0.6%
	2016-17	139	93.5%	4.3%	1.4%	0.7%	0.0%	0.0%
MONTEREY	2017-18	7,161	96.9%	1.5%	0.7%	0.0%	0.1%	0.8%
	2016-17	7,221	97.5%	1.2%	0.5%	0.2%	0.1%	0.5%
NAPA	2017-18	1,768	95.0%	2.4%	1.8%	0.0%	0.3%	0.5%
	2016-17	1,702	96.2%	1.4%	1.1%	0.6%	0.7%	0.0%
NEVADA	2017-18	913	81.7%	4.3%	7.7%	0.0%	6.0%	0.3%
	2016-17	944	80.9%	4.7%	3.6%	7.0%	3.7%	0.1%
ORANGE	2017-18	42,375	95.7%	2.2%	0.9%	0.0%	0.6%	0.6%
	2016-17	42,389	95.5%	2.0%	0.8%	0.6%	0.4%	0.6%

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.

^ Overdue for one or more immunizations.

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018
TABLE 4: TOTAL ENROLLMENT AND ADMISSION STATUS, 2017-2018 AND 2016-2017,
BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS	STUDENTS WITH ALL REQUIRED IMMUNIZATIONS	CONDITIONAL ENTRANTS	STUDENTS WITH PME	STUDENTS WITH PBE	OTHERS LACKING REQUIRED IMMUNIZATIONS†	OVERDUE^
		NUMBER	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2017-18	564,121	95.1%	1.8%	0.7%	0.0%	1.1%	1.2%
	2016-17	562,924	95.6%	1.9%	0.5%	0.6%	0.5%	1.0%
COUNTY								
PLACER	2017-18	6,296	92.3%	3.5%	2.0%	0.0%	1.4%	0.7%
	2016-17	5,847	92.4%	3.4%	1.1%	1.2%	0.5%	1.4%
PLUMAS	2017-18	193	91.2%	2.1%	4.7%	0.0%	1.6%	0.5%
	2016-17	166	89.8%	6.0%	3.0%	0.6%	0.6%	0.0%
RIVERSIDE	2017-18	35,453	96.5%	1.6%	0.6%	0.0%	0.4%	0.9%
	2016-17	36,132	96.3%	1.6%	0.4%	0.3%	0.4%	1.0%
SACRAMENTO	2017-18	21,508	93.5%	2.9%	1.1%	0.0%	1.6%	0.9%
	2016-17	21,993	94.0%	3.0%	0.6%	0.6%	1.2%	0.6%
SAN BENITO	2017-18	1,019	98.3%	0.9%	0.8%	0.0%	0.0%	0.0%
	2016-17	967	98.1%	0.9%	0.3%	0.0%	0.0%	0.6%
SAN BERNARDINO	2017-18	33,825	96.5%	1.7%	0.3%	0.0%	0.9%	0.7%
	2016-17	34,471	96.1%	1.9%	0.3%	0.2%	0.5%	1.0%
SAN DIEGO	2017-18	47,174	93.2%	1.9%	1.2%	0.0%	3.0%	0.7%
	2016-17	46,044	94.7%	1.7%	0.9%	1.4%	0.7%	0.5%
SAN FRANCISCO	2017-18	6,701	94.9%	1.8%	0.7%	0.0%	0.0%	2.7%
	2016-17	6,742	95.6%	1.8%	0.5%	0.3%	0.0%	1.8%
SAN JOAQUIN	2017-18	12,582	96.3%	1.4%	0.3%	0.0%	0.8%	1.1%
	2016-17	12,572	97.3%	1.4%	0.3%	0.2%	0.5%	0.3%
SAN LUIS OBISPO	2017-18	3,074	94.8%	2.5%	1.5%	0.0%	0.6%	0.6%
	2016-17	3,154	95.6%	2.5%	0.6%	0.4%	0.6%	0.3%
SAN MATEO	2017-18	9,361	96.9%	1.2%	0.5%	0.0%	0.1%	1.3%
	2016-17	9,608	96.5%	1.8%	0.4%	0.2%	0.0%	1.1%
SANTA BARBARA	2017-18	6,632	96.5%	1.5%	1.0%	0.0%	0.7%	0.3%
	2016-17	6,674	96.4%	1.8%	0.6%	0.7%	0.4%	0.0%
SANTA CLARA	2017-18	26,410	96.7%	1.2%	0.5%	0.0%	0.1%	1.5%
	2016-17	26,070	97.1%	1.3%	0.4%	0.3%	0.1%	0.8%
SANTA CRUZ	2017-18	3,565	90.4%	2.2%	2.7%	0.0%	4.1%	0.6%
	2016-17	3,681	90.7%	2.7%	1.4%	1.2%	3.6%	0.4%
SHASTA	2017-18	2,526	90.1%	5.1%	1.8%	0.0%	2.7%	0.3%
	2016-17	2,386	92.2%	3.3%	1.2%	1.4%	1.2%	0.6%

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.

^ Overdue for one or more immunizations.

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018
TABLE 4: TOTAL ENROLLMENT AND ADMISSION STATUS, 2017-2018 AND 2016-2017,
BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS	STUDENTS WITH ALL REQUIRED IMMUNIZATIONS	CONDITIONAL ENTRANTS	STUDENTS WITH PME	STUDENTS WITH PBE	OTHERS LACKING REQUIRED IMMUNIZATIONS†	OVERDUE^
		NUMBER	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2017-18	564,121	95.1%	1.8%	0.7%	0.0%	1.1%	1.2%
	2016-17	562,924	95.6%	1.9%	0.5%	0.6%	0.5%	1.0%
COUNTY								
SIERRA	2017-18	39	94.9%	2.6%	2.6%	0.0%	0.0%	0.0%
	2016-17	23	95.7%	4.3%	0.0%	0.0%	0.0%	0.0%
SISKIYOU	2017-18	564	90.2%	3.4%	1.1%	0.0%	3.9%	1.4%
	2016-17	520	92.5%	2.1%	1.3%	1.0%	2.9%	0.2%
SOLANO	2017-18	5,534	97.6%	1.7%	0.3%	0.0%	0.1%	0.3%
	2016-17	5,919	96.7%	1.7%	0.3%	0.3%	0.2%	0.8%
SONOMA	2017-18	6,645	91.8%	2.6%	2.7%	0.0%	1.8%	1.2%
	2016-17	6,669	93.4%	2.7%	1.6%	1.4%	0.3%	0.6%
STANISLAUS	2017-18	8,858	96.0%	2.1%	0.7%	0.0%	0.3%	0.9%
	2016-17	9,166	96.5%	2.0%	0.4%	0.4%	0.1%	0.5%
SUTTER	2017-18	2,152	78.2%	0.9%	0.5%	0.0%	19.8%	0.6%
	2016-17	1,995	85.3%	0.9%	0.4%	0.9%	12.3%	0.3%
TEHAMA	2017-18	1,033	95.7%	2.4%	0.7%	0.0%	0.8%	0.4%
	2016-17	1,024	93.4%	4.8%	0.8%	0.5%	0.6%	0.0%
TRINITY	2017-18	71	84.5%	4.2%	7.0%	0.0%	2.8%	1.4%
	2016-17	144	91.0%	6.9%	0.0%	0.0%	0.7%	1.4%
TULARE	2017-18	9,450	98.3%	0.9%	0.2%	0.0%	0.4%	0.2%
	2016-17	9,243	98.5%	0.9%	0.1%	0.1%	0.3%	0.2%
TUOLUMNE	2017-18	620	86.5%	6.6%	1.1%	0.0%	2.4%	3.4%
	2016-17	570	88.8%	3.5%	1.9%	3.0%	1.1%	1.8%
VENTURA	2017-18	12,056	95.9%	1.7%	1.0%	0.0%	0.8%	0.6%
	2016-17	12,247	96.1%	1.5%	0.6%	0.6%	0.7%	0.4%
YOLO	2017-18	2,779	94.5%	4.0%	1.0%	0.0%	0.1%	0.4%
	2016-17	2,830	96.6%	2.0%	0.3%	0.6%	0.2%	0.2%
YUBA	2017-18	1,420	92.0%	2.5%	0.1%	0.0%	1.7%	3.7%
	2016-17	1,478	96.1%	2.0%	0.1%	0.1%	0.7%	0.9%

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.

^ Overdue for one or more immunizations.

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018

TABLE 5: NUMBER AND PERCENTAGE OF STUDENTS WITH ALL REQUIRED IMMUNIZATIONS IN 2017-2018 AND 2016-2017,
AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018			2016-2017			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	NUMBER WITH ALL REQUIRED IMMUNIZATIONS	PERCENT	TOTAL STUDENTS	NUMBER WITH ALL REQUIRED IMMUNIZATIONS	PERCENT	PERCENT	NUMBER WITH ALL REQUIRED IMMUNIZATIONS
STATE TOTAL	564,121	536,642	95.1%	562,924	537,991	95.6%	-0.4%	-1,349
COUNTY								
ALAMEDA	22,307	21,671	97.1%	21,910	21,302	97.2%	-0.1%	369
ALPINE	6	<20*	--*	6	<20*	--*	--*	--*
AMADOR	376	345	91.8%	290	279	96.2%	-4.5%	66
BUTTE	2,899	2,739	94.5%	2,814	2,648	94.1%	0.4%	91
CALAVERAS	464	409	88.1%	462	414	89.6%	-1.5%	-5
COLUSA	414	408	98.6%	411	399	97.1%	1.5%	9
CONTRA COSTA	15,292	14,728	96.3%	15,434	14,976	97.0%	-0.7%	-248
DEL NORTE	368	360	97.8%	401	372	92.8%	5.1%	-12
EL DORADO	2,360	2,114	89.6%	2,205	2,071	93.9%	-4.3%	43
FRESNO	18,573	17,845	96.1%	18,779	18,241	97.1%	-1.1%	-396
GLENN	510	502	98.4%	481	468	97.3%	1.1%	34
HUMBOLDT	1,762	1,557	88.4%	1,799	1,560	86.7%	1.7%	-3
IMPERIAL	3,362	3,287	97.8%	3,254	3,169	97.4%	0.4%	118
INYO	221	217	98.2%	212	202	95.3%	2.9%	15
KERN	17,580	16,267	92.5%	16,497	15,687	95.1%	-2.6%	580
KINGS	2,678	2,616	97.7%	2,731	2,665	97.6%	0.1%	-49
LAKE	850	798	93.9%	840	810	96.4%	-2.5%	-12
LASSEN	326	309	94.8%	357	324	90.8%	4.0%	-15
LOS ANGELES	140,822	133,718	95.0%	140,269	133,310	95.0%	-0.1%	408
MADERA	2,778	2,629	94.6%	2,835	2,723	96.0%	-1.4%	-94
MARIN	3,259	3,064	94.0%	3,245	3,023	93.2%	0.9%	41
MARIPOSA	150	135	90.0%	19	<20*	--*	--*	--*
MENDOCINO	1,305	1,133	86.8%	1,195	1,060	88.7%	-1.9%	73
MERCED	5,421	5,239	96.6%	5,618	5,486	97.7%	-1.0%	-247
MODOC	115	113	98.3%	130	102	78.5%	19.8%	11
MONO	166	149	89.8%	139	130	93.5%	-3.8%	19
MONTEREY	7,161	6,939	96.9%	7,221	7,039	97.5%	-0.6%	-100
NAPA	1,768	1,680	95.0%	1,702	1,637	96.2%	-1.2%	43
NEVADA	913	746	81.7%	944	764	80.9%	0.8%	-18

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018

TABLE 5: NUMBER AND PERCENTAGE OF STUDENTS WITH ALL REQUIRED IMMUNIZATIONS IN 2017-2018 AND 2016-2017,
AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018			2016-2017			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	NUMBER WITH ALL REQUIRED IMMUNIZATIONS	PERCENT	TOTAL STUDENTS	NUMBER WITH ALL REQUIRED IMMUNIZATIONS	PERCENT	PERCENT	NUMBER WITH ALL REQUIRED IMMUNIZATIONS
STATE TOTAL	564,121	536,642	95.1%	562,924	537,991	95.6%	-0.4%	-1,349
COUNTY								
ORANGE	42,375	40,537	95.7%	42,389	40,490	95.5%	0.1%	47
PLACER	6,296	5,814	92.3%	5,847	5,402	92.4%	0.0%	412
PLUMAS	193	176	91.2%	166	149	89.8%	1.4%	27
RIVERSIDE	35,453	34,206	96.5%	36,132	34,809	96.3%	0.1%	-603
SACRAMENTO	21,508	20,101	93.5%	21,993	20,684	94.0%	-0.6%	-583
SAN BENITO	1,019	1,002	98.3%	967	949	98.1%	0.2%	53
SAN BERNARDINO	33,825	32,638	96.5%	34,471	33,135	96.1%	0.4%	-497
SAN DIEGO	47,174	43,967	93.2%	46,044	43,613	94.7%	-1.5%	354
SAN FRANCISCO	6,701	6,356	94.9%	6,742	6,445	95.6%	-0.7%	-89
SAN JOAQUIN	12,582	12,118	96.3%	12,572	12,232	97.3%	-1.0%	-114
SAN LUIS OBISPO	3,074	2,913	94.8%	3,154	3,015	95.6%	-0.8%	-102
SAN MATEO	9,361	9,073	96.9%	9,608	9,275	96.5%	0.4%	-202
SANTA BARBARA	6,632	6,402	96.5%	6,674	6,435	96.4%	0.1%	-33
SANTA CLARA	26,410	25,529	96.7%	26,070	25,305	97.1%	-0.4%	224
SANTA CRUZ	3,565	3,223	90.4%	3,681	3,338	90.7%	-0.3%	-115
SHASTA	2,526	2,276	90.1%	2,386	2,200	92.2%	-2.1%	76
SIERRA	39	37	94.9%	23	22	95.7%	-0.8%	15
SISKIYOU	564	509	90.2%	520	481	92.5%	-2.3%	28
SOLANO	5,534	5,400	97.6%	5,919	5,723	96.7%	0.9%	-323
SONOMA	6,645	6,097	91.8%	6,669	6,231	93.4%	-1.7%	-134
STANISLAUS	8,858	8,503	96.0%	9,166	8,847	96.5%	-0.5%	-344
SUTTER	2,152	1,682	78.2%	1,995	1,701	85.3%	-7.1%	-19
TEHAMA	1,033	989	95.7%	1,024	956	93.4%	2.4%	33
TRINITY	71	60	84.5%	144	131	91.0%	-6.5%	-71
TULARE	9,450	9,286	98.3%	9,243	9,104	98.5%	-0.2%	182
TUOLUMNE	620	536	86.5%	570	506	88.8%	-2.3%	30
VENTURA	12,056	11,557	95.9%	12,247	11,774	96.1%	-0.3%	-217
YOLO	2,779	2,626	94.5%	2,830	2,733	96.6%	-2.1%	-107
YUBA	1,420	1,306	92.0%	1,478	1,421	96.1%	-4.2%	-115

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018
TABLE 6: NUMBER AND PERCENTAGE OF CONDITIONAL ENTRANTS IN 2017-2018 AND 2016-2017,
AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018			2016-2017			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL	CONDITIONAL ENTRANTS	PERCENT	TOTAL	CONDITIONAL ENTRANTS	PERCENT	PERCENT	CONDITIONAL ENTRANTS
STATE TOTAL	564,121	10,371	1.8%	562,924	10,736	1.9%	-0.1%	-365
COUNTY								
ALAMEDA	22,307	259	1.2%	21,910	278	1.3%	-0.1%	-19
ALPINE	6	<20*	--*	6	<20*	--*	--*	--*
AMADOR	376	17	4.5%	290	8	2.8%	1.8%	9
BUTTE	2,899	72	2.5%	2,814	63	2.2%	0.2%	9
CALAVERAS	464	26	5.6%	462	23	5.0%	0.6%	3
COLUSA	414	4	1.0%	411	4	1.0%	0.0%	0
CONTRA COSTA	15,292	297	1.9%	15,434	218	1.4%	0.5%	79
DEL NORTE	368	6	1.6%	401	13	3.2%	-1.6%	-7
EL DORADO	2,360	85	3.6%	2,205	72	3.3%	0.3%	13
FRESNO	18,573	254	1.4%	18,779	308	1.6%	-0.3%	-54
GLENN	510	3	0.6%	481	8	1.7%	-1.1%	-5
HUMBOLDT	1,762	53	3.0%	1,799	109	6.1%	-3.1%	-56
IMPERIAL	3,362	24	0.7%	3,254	32	1.0%	-0.3%	-8
INYO	221	2	0.9%	212	5	2.4%	-1.5%	-3
KERN	17,580	338	1.9%	16,497	423	2.6%	-0.6%	-85
KINGS	2,678	48	1.8%	2,731	49	1.8%	0.0%	-1
LAKE	850	33	3.9%	840	18	2.1%	1.7%	15
LASSEN	326	12	3.7%	357	7	2.0%	1.7%	5
LOS ANGELES	140,822	2,390	1.7%	140,269	2,752	2.0%	-0.3%	-362
MADERA	2,778	42	1.5%	2,835	41	1.4%	0.1%	1
MARIN	3,259	109	3.3%	3,245	99	3.1%	0.3%	10
MARIPOSA	150	7	4.7%	19	<20*	--*	--*	--*
MENDOCINO	1,305	52	4.0%	1,195	102	8.5%	-4.6%	-50
MERCED	5,421	84	1.5%	5,618	83	1.5%	0.1%	1
MODOC	115	1	0.9%	130	28	21.5%	-20.7%	-27
MONO	166	9	5.4%	139	6	4.3%	1.1%	3
MONTEREY	7,161	108	1.5%	7,221	87	1.2%	0.3%	21
NAPA	1,768	42	2.4%	1,702	23	1.4%	1.0%	19
NEVADA	913	39	4.3%	944	44	4.7%	-0.4%	-5

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018
TABLE 6: NUMBER AND PERCENTAGE OF CONDITIONAL ENTRANTS IN 2017-2018 AND 2016-2017,
AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018			2016-2017			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL	CONDITIONAL ENTRANTS	PERCENT	TOTAL	CONDITIONAL ENTRANTS	PERCENT	PERCENT	CONDITIONAL ENTRANTS
STATE TOTAL	564,121	10,371	1.8%	562,924	10,736	1.9%	-0.1%	-365
COUNTY								
ORANGE	42,375	948	2.2%	42,389	847	2.0%	0.2%	101
PLACER	6,296	220	3.5%	5,847	197	3.4%	0.1%	23
PLUMAS	193	4	2.1%	166	10	6.0%	-4.0%	-6
RIVERSIDE	35,453	569	1.6%	36,132	568	1.6%	0.0%	1
SACRAMENTO	21,508	631	2.9%	21,993	653	3.0%	0.0%	-22
SAN BENITO	1,019	9	0.9%	967	9	0.9%	0.0%	0
SAN BERNARDINO	33,825	560	1.7%	34,471	638	1.9%	-0.2%	-78
SAN DIEGO	47,174	899	1.9%	46,044	796	1.7%	0.2%	103
SAN FRANCISCO	6,701	119	1.8%	6,742	122	1.8%	0.0%	-3
SAN JOAQUIN	12,582	179	1.4%	12,572	170	1.4%	0.1%	9
SAN LUIS OBISPO	3,074	78	2.5%	3,154	80	2.5%	0.0%	-2
SAN MATEO	9,361	116	1.2%	9,608	171	1.8%	-0.5%	-55
SANTA BARBARA	6,632	101	1.5%	6,674	119	1.8%	-0.3%	-18
SANTA CLARA	26,410	322	1.2%	26,070	348	1.3%	-0.1%	-26
SANTA CRUZ	3,565	79	2.2%	3,681	99	2.7%	-0.5%	-20
SHASTA	2,526	130	5.1%	2,386	79	3.3%	1.8%	51
SIERRA	39	1	2.6%	23	1	4.3%	-1.8%	0
SISKIYOU	564	19	3.4%	520	11	2.1%	1.3%	8
SOLANO	5,534	92	1.7%	5,919	102	1.7%	-0.1%	-10
SONOMA	6,645	171	2.6%	6,669	177	2.7%	-0.1%	-6
STANISLAUS	8,858	182	2.1%	9,166	185	2.0%	0.0%	-3
SUTTER	2,152	20	0.9%	1,995	17	0.9%	0.1%	3
TEHAMA	1,033	25	2.4%	1,024	49	4.8%	-2.4%	-24
TRINITY	71	3	4.2%	144	10	6.9%	-2.7%	-7
TULARE	9,450	84	0.9%	9,243	83	0.9%	0.0%	1
TUOLUMNE	620	41	6.6%	570	20	3.5%	3.1%	21
VENTURA	12,056	206	1.7%	12,247	183	1.5%	0.2%	23
YOLO	2,779	111	4.0%	2,830	58	2.0%	1.9%	53
YUBA	1,420	36	2.5%	1,478	30	2.0%	0.5%	6

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018

TABLE 7: NUMBER AND PERCENTAGE OF STUDENTS WITH A PERMANENT MEDICAL EXEMPTION (PME) IN 2017-2018 AND 2016-2017,
AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018			2016-2017			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	PME	PERCENT	TOTAL STUDENTS	PME	PERCENT	PERCENT	NUMBER PME
STATE TOTAL	564,121	4,111	0.7%	562,924	2,850	0.5%	0.2%	1,261
COUNTY								
ALAMEDA	22,307	97	0.4%	21,910	76	0.3%	0.1%	21
ALPINE	6	<20*	--*	6	<20*	--*	--*	--*
AMADOR	376	6	1.6%	290	0	0.0%	1.6%	6
BUTTE	2,899	30	1.0%	2,814	29	1.0%	0.0%	1
CALAVERAS	464	13	2.8%	462	3	0.6%	2.2%	10
COLUSA	414	0	0.0%	411	1	0.2%	-0.2%	-1
CONTRA COSTA	15,292	73	0.5%	15,434	68	0.4%	0.0%	5
DEL NORTE	368	1	0.3%	401	1	0.2%	0.0%	0
EL DORADO	2,360	47	2.0%	2,205	31	1.4%	0.6%	16
FRESNO	18,573	44	0.2%	18,779	33	0.2%	0.1%	11
GLENN	510	2	0.4%	481	1	0.2%	0.2%	1
HUMBOLDT	1,762	86	4.9%	1,799	16	0.9%	4.0%	70
IMPERIAL	3,362	6	0.2%	3,254	5	0.2%	0.0%	1
INYO	221	1	0.5%	212	2	0.9%	-0.5%	-1
KERN	17,580	69	0.4%	16,497	27	0.2%	0.2%	42
KINGS	2,678	3	0.1%	2,731	5	0.2%	-0.1%	-2
LAKE	850	10	1.2%	840	6	0.7%	0.5%	4
LASSEN	326	4	1.2%	357	5	1.4%	-0.2%	-1
LOS ANGELES	140,822	709	0.5%	140,269	515	0.4%	0.1%	194
MADERA	2,778	12	0.4%	2,835	5	0.2%	0.3%	7
MARIN	3,259	68	2.1%	3,245	68	2.1%	0.0%	0
MARIPOSA	150	2	1.3%	19	<20*	--*	--*	--*
MENDOCINO	1,305	32	2.5%	1,195	7	0.6%	1.9%	25
MERCED	5,421	15	0.3%	5,618	8	0.1%	0.1%	7
MODOC	115	1	0.9%	130	0	0.0%	0.9%	1
MONO	166	7	4.2%	139	2	1.4%	2.8%	5
MONTEREY	7,161	50	0.7%	7,221	37	0.5%	0.2%	13
NAPA	1,768	31	1.8%	1,702	19	1.1%	0.6%	12
NEVADA	913	70	7.7%	944	34	3.6%	4.1%	36

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018

TABLE 7: NUMBER AND PERCENTAGE OF STUDENTS WITH A PERMANENT MEDICAL EXEMPTION (PME) IN 2017-2018 AND 2016-2017,
AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018			2016-2017			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	PME	PERCENT	TOTAL STUDENTS	PME	PERCENT	PERCENT	NUMBER PME
STATE TOTAL	564,121	4,111	0.7%	562,924	2,850	0.5%	0.2%	1,261
COUNTY								
ORANGE	42,375	384	0.9%	42,389	348	0.8%	0.1%	36
PLACER	6,296	127	2.0%	5,847	64	1.1%	0.9%	63
PLUMAS	193	9	4.7%	166	5	3.0%	1.7%	4
RIVERSIDE	35,453	208	0.6%	36,132	151	0.4%	0.2%	57
SACRAMENTO	21,508	235	1.1%	21,993	129	0.6%	0.5%	106
SAN BENITO	1,019	8	0.8%	967	3	0.3%	0.5%	5
SAN BERNARDINO	33,825	91	0.3%	34,471	105	0.3%	0.0%	-14
SAN DIEGO	47,174	576	1.2%	46,044	404	0.9%	0.3%	172
SAN FRANCISCO	6,701	48	0.7%	6,742	33	0.5%	0.2%	15
SAN JOAQUIN	12,582	41	0.3%	12,572	32	0.3%	0.1%	9
SAN LUIS OBISPO	3,074	46	1.5%	3,154	19	0.6%	0.9%	27
SAN MATEO	9,361	44	0.5%	9,608	34	0.4%	0.1%	10
SANTA BARBARA	6,632	64	1.0%	6,674	41	0.6%	0.4%	23
SANTA CLARA	26,410	129	0.5%	26,070	108	0.4%	0.1%	21
SANTA CRUZ	3,565	95	2.7%	3,681	53	1.4%	1.2%	42
SHASTA	2,526	46	1.8%	2,386	29	1.2%	0.6%	17
SIERRA	39	1	2.6%	23	0	0.0%	2.6%	1
SISKIYOU	564	6	1.1%	520	7	1.3%	-0.3%	-1
SOLANO	5,534	17	0.3%	5,919	16	0.3%	0.0%	1
SONOMA	6,645	181	2.7%	6,669	109	1.6%	1.1%	72
STANISLAUS	8,858	64	0.7%	9,166	33	0.4%	0.4%	31
SUTTER	2,152	11	0.5%	1,995	8	0.4%	0.1%	3
TEHAMA	1,033	7	0.7%	1,024	8	0.8%	-0.1%	-1
TRINITY	71	5	7.0%	144	0	0.0%	7.0%	5
TULARE	9,450	21	0.2%	9,243	10	0.1%	0.1%	11
TUOLUMNE	620	7	1.1%	570	11	1.9%	-0.8%	-4
VENTURA	12,056	120	1.0%	12,247	77	0.6%	0.4%	43
YOLO	2,779	29	1.0%	2,830	8	0.3%	0.8%	21
YUBA	1,420	2	0.1%	1,478	1	0.1%	0.1%	1

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018

TABLE 8: NUMBER AND PERCENTAGE OF STUDENTS WITH A PERSONAL BELIEFS EXEMPTION (PBE) IN 2017-2018 AND 2016-2017,
AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018			2016-2017			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	PBE	PERCENT	TOTAL STUDENTS	PBE	PERCENT	PERCENT	NUMBER PBE
STATE TOTAL	564,121	5	0.0%	562,924	3,133	0.6%	-0.6%	-3,128
COUNTY								
ALAMEDA	22,307	0	0.0%	21,910	32	0.1%	-0.1%	-32
ALPINE	6	<20*	--*	6	<20*	--*	--*	--*
AMADOR	376	0	0.0%	290	2	0.7%	-0.7%	-2
BUTTE	2,899	0	0.0%	2,814	17	0.6%	-0.6%	-17
CALAVERAS	464	0	0.0%	462	8	1.7%	-1.7%	-8
COLUSA	414	0	0.0%	411	0	0.0%	0.0%	0
CONTRA COSTA	15,292	0	0.0%	15,434	68	0.4%	-0.4%	-68
DEL NORTE	368	0	0.0%	401	0	0.0%	0.0%	0
EL DORADO	2,360	0	0.0%	2,205	24	1.1%	-1.1%	-24
FRESNO	18,573	0	0.0%	18,779	30	0.2%	-0.2%	-30
GLENN	510	0	0.0%	481	2	0.4%	-0.4%	-2
HUMBOLDT	1,762	0	0.0%	1,799	30	1.7%	-1.7%	-30
IMPERIAL	3,362	0	0.0%	3,254	3	0.1%	-0.1%	-3
INYO	221	0	0.0%	212	0	0.0%	0.0%	0
KERN	17,580	0	0.0%	16,497	223	1.4%	-1.4%	-223
KINGS	2,678	0	0.0%	2,731	2	0.1%	-0.1%	-2
LAKE	850	0	0.0%	840	0	0.0%	0.0%	0
LASSEN	326	0	0.0%	357	4	1.1%	-1.1%	-4
LOS ANGELES	140,822	2	0.0%	140,269	657	0.5%	-0.5%	-655
MADERA	2,778	0	0.0%	2,835	2	0.1%	-0.1%	-2
MARIN	3,259	0	0.0%	3,245	40	1.2%	-1.2%	-40
MARIPOSA	150	0	0.0%	19	<20*	--*	--*	--*
MENDOCINO	1,305	0	0.0%	1,195	13	1.1%	-1.1%	-13
MERCED	5,421	0	0.0%	5,618	1	0.0%	0.0%	-1
MODOC	115	0	0.0%	130	0	0.0%	0.0%	0
MONO	166	0	0.0%	139	1	0.7%	-0.7%	-1
MONTEREY	7,161	0	0.0%	7,221	17	0.2%	-0.2%	-17
NAPA	1,768	0	0.0%	1,702	11	0.6%	-0.6%	-11
NEVADA	913	0	0.0%	944	66	7.0%	-7.0%	-66

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018

TABLE 8: NUMBER AND PERCENTAGE OF STUDENTS WITH A PERSONAL BELIEFS EXEMPTION (PBE) IN 2017-2018 AND 2016-2017,
AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018			2016-2017			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	PBE	PERCENT	TOTAL STUDENTS	PBE	PERCENT	PERCENT	NUMBER PBE
STATE TOTAL	564,121	5	0.0%	562,924	3,133	0.6%	-0.6%	-3,128
COUNTY								
ORANGE	42,375	0	0.0%	42,389	269	0.6%	-0.6%	-269
PLACER	6,296	0	0.0%	5,847	69	1.2%	-1.2%	-69
PLUMAS	193	0	0.0%	166	1	0.6%	-0.6%	-1
RIVERSIDE	35,453	0	0.0%	36,132	95	0.3%	-0.3%	-95
SACRAMENTO	21,508	0	0.0%	21,993	127	0.6%	-0.6%	-127
SAN BENITO	1,019	0	0.0%	967	0	0.0%	0.0%	0
SAN BERNARDINO	33,825	0	0.0%	34,471	83	0.2%	-0.2%	-83
SAN DIEGO	47,174	0	0.0%	46,044	655	1.4%	-1.4%	-655
SAN FRANCISCO	6,701	0	0.0%	6,742	22	0.3%	-0.3%	-22
SAN JOAQUIN	12,582	0	0.0%	12,572	30	0.2%	-0.2%	-30
SAN LUIS OBISPO	3,074	0	0.0%	3,154	13	0.4%	-0.4%	-13
SAN MATEO	9,361	0	0.0%	9,608	20	0.2%	-0.2%	-20
SANTA BARBARA	6,632	2	0.0%	6,674	47	0.7%	-0.7%	-45
SANTA CLARA	26,410	0	0.0%	26,070	84	0.3%	-0.3%	-84
SANTA CRUZ	3,565	0	0.0%	3,681	43	1.2%	-1.2%	-43
SHASTA	2,526	0	0.0%	2,386	34	1.4%	-1.4%	-34
SIERRA	39	0	0.0%	23	0	0.0%	0.0%	0
SISKIYOU	564	0	0.0%	520	5	1.0%	-1.0%	-5
SOLANO	5,534	0	0.0%	5,919	16	0.3%	-0.3%	-16
SONOMA	6,645	1	0.0%	6,669	92	1.4%	-1.4%	-91
STANISLAUS	8,858	0	0.0%	9,166	38	0.4%	-0.4%	-38
SUTTER	2,152	0	0.0%	1,995	18	0.9%	-0.9%	-18
TEHAMA	1,033	0	0.0%	1,024	5	0.5%	-0.5%	-5
TRINITY	71	0	0.0%	144	0	0.0%	0.0%	0
TULARE	9,450	0	0.0%	9,243	5	0.1%	-0.1%	-5
TUOLUMNE	620	0	0.0%	570	17	3.0%	-3.0%	-17
VENTURA	12,056	0	0.0%	12,247	73	0.6%	-0.6%	-73
YOLO	2,779	0	0.0%	2,830	17	0.6%	-0.6%	-17
YUBA	1,420	0	0.0%	1,478	2	0.1%	-0.1%	-2

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018

TABLE 9: NUMBER AND PERCENTAGE OF STUDENTS LACKING REQUIRED IMMUNIZATIONS† IN 2017-2018 AND 2016-2017,
AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018			2016-2017			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	OTHERS LACKING REQUIRED IMMUNIZATIONS†	PERCENT	TOTAL STUDENTS	OTHERS LACKING REQUIRED IMMUNIZATIONS†	PERCENT	PERCENT	OTHERS LACKING REQUIRED IMMUNIZATIONS†
STATE TOTAL	564,121	6,072	1.1%	562,924	2,564	0.5%	0.6%	3,508
COUNTY								
ALAMEDA	22,307	35	0.2%	21,910	13	0.1%	0.1%	22
ALPINE	6	0	0.0%	6	<20*	--*	--*	--*
AMADOR	376	4	1.1%	290	1	0.3%	0.7%	3
BUTTE	2,899	49	1.7%	2,814	40	1.4%	0.3%	9
CALAVERAS	464	15	3.2%	462	14	3.0%	0.2%	1
COLUSA	414	0	0.0%	411	0	0.0%	0.0%	0
CONTRA COSTA	15,292	42	0.3%	15,434	29	0.2%	0.1%	13
DEL NORTE	368	1	0.3%	401	15	3.7%	-3.5%	-14
EL DORADO	2,360	113	4.8%	2,205	4	0.2%	4.6%	109
FRESNO	18,573	178	1.0%	18,779	44	0.2%	0.7%	134
GLENN	510	0	0.0%	481	0	0.0%	0.0%	0
HUMBOLDT	1,762	52	3.0%	1,799	70	3.9%	-0.9%	-18
IMPERIAL	3,362	8	0.2%	3,254	2	0.1%	0.2%	6
INYO	221	0	0.0%	212	0	0.0%	0.0%	0
KERN	17,580	77	0.4%	16,497	23	0.1%	0.3%	54
KINGS	2,678	0	0.0%	2,731	1	0.0%	0.0%	-1
LAKE	850	6	0.7%	840	4	0.5%	0.2%	2
LASSEN	326	1	0.3%	357	17	4.8%	-4.5%	-16
LOS ANGELES	140,822	1,601	1.1%	140,269	301	0.2%	0.9%	1300
MADERA	2,778	34	1.2%	2,835	23	0.8%	0.4%	11
MARIN	3,259	4	0.1%	3,245	0	0.0%	0.1%	4
MARIPOSA	150	3	2.0%	19	<20*	--*	--*	--*
MENDOCINO	1,305	7	0.5%	1,195	5	0.4%	0.1%	2
MERCED	5,421	33	0.6%	5,618	16	0.3%	0.3%	17
MODOC	115	0	0.0%	130	0	0.0%	0.0%	0
MONO	166	0	0.0%	139	0	0.0%	0.0%	0
MONTEREY	7,161	7	0.1%	7,221	4	0.1%	0.0%	3
NAPA	1,768	6	0.3%	1,702	12	0.7%	-0.4%	-6
NEVADA	913	55	6.0%	944	35	3.7%	2.3%	20

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018

TABLE 9: NUMBER AND PERCENTAGE OF STUDENTS LACKING REQUIRED IMMUNIZATIONS† IN 2017-2018 AND 2016-2017,
AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018			2016-2017			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	OTHERS LACKING REQUIRED IMMUNIZATIONS†	PERCENT	TOTAL STUDENTS	OTHERS LACKING REQUIRED IMMUNIZATIONS†	PERCENT	PERCENT	OTHERS LACKING REQUIRED IMMUNIZATIONS†
STATE TOTAL	564,121	6,072	1.1%	562,924	2,564	0.5%	0.6%	3,508
COUNTY								
ORANGE	42,375	235	0.6%	42,389	179	0.4%	0.1%	56
PLACER	6,296	89	1.4%	5,847	32	0.5%	0.9%	57
PLUMAS	193	3	1.6%	166	1	0.6%	1.0%	2
RIVERSIDE	35,453	146	0.4%	36,132	153	0.4%	0.0%	-7
SACRAMENTO	21,508	343	1.6%	21,993	266	1.2%	0.4%	77
SAN BENITO	1,019	0	0.0%	967	0	0.0%	0.0%	0
SAN BERNARDINO	33,825	311	0.9%	34,471	179	0.5%	0.4%	132
SAN DIEGO	47,174	1,401	3.0%	46,044	329	0.7%	2.3%	1072
SAN FRANCISCO	6,701	0	0.0%	6,742	0	0.0%	0.0%	0
SAN JOAQUIN	12,582	106	0.8%	12,572	68	0.5%	0.3%	38
SAN LUIS OBISPO	3,074	18	0.6%	3,154	18	0.6%	0.0%	0
SAN MATEO	9,361	8	0.1%	9,608	4	0.0%	0.0%	4
SANTA BARBARA	6,632	44	0.7%	6,674	30	0.4%	0.2%	14
SANTA CLARA	26,410	33	0.1%	26,070	18	0.1%	0.1%	15
SANTA CRUZ	3,565	145	4.1%	3,681	134	3.6%	0.4%	11
SHASTA	2,526	67	2.7%	2,386	29	1.2%	1.4%	38
SIERRA	39	0	0.0%	23	0	0.0%	0.0%	0
SISKIYOU	564	22	3.9%	520	15	2.9%	1.0%	7
SOLANO	5,534	7	0.1%	5,919	13	0.2%	-0.1%	-6
SONOMA	6,645	117	1.8%	6,669	21	0.3%	1.4%	96
STANISLAUS	8,858	29	0.3%	9,166	13	0.1%	0.2%	16
SUTTER	2,152	426	19.8%	1,995	245	12.3%	7.5%	181
TEHAMA	1,033	8	0.8%	1,024	6	0.6%	0.2%	2
TRINITY	71	2	2.8%	144	1	0.7%	2.1%	1
TULARE	9,450	39	0.4%	9,243	26	0.3%	0.1%	13
TUOLUMNE	620	15	2.4%	570	6	1.1%	1.4%	9
VENTURA	12,056	101	0.8%	12,247	87	0.7%	0.1%	14
YOLO	2,779	2	0.1%	2,830	7	0.2%	-0.2%	-5
YUBA	1,420	24	1.7%	1,478	11	0.7%	0.9%	13

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018

TABLE 10: NUMBER AND PERCENTAGE OF OTHER STUDENTS LACKING REQUIRED IMMUNIZATIONS† IN 2017-2018
BY SUBGROUP AND COUNTY

	TOTAL STUDENTS	OTHERS LACKING REQUIRED IMMUNIZATIONS†		OTHERS LACKING REQUIRED IMMUNIZATIONS†					
				INDEPENDENT STUDY		IEP SERVICES		HOME-BASED PRIVATE SCHOOL	
	NUMBER	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	564,121	6,072	1.1%	4,399	0.8%	1,133	0.2%	540	0.1%
COUNTY									
ALAMEDA	22,307	35	0.2%	0	0.0%	35	0.2%	0	0.0%
ALPINE	6	<20*	--*	<20*	--*	<20*	--*	<20*	--*
AMADOR	376	4	1.1%	0	0.0%	4	1.1%	0	0.0%
BUTTE	2,899	49	1.7%	39	1.3%	9	0.3%	1	0.0%
CALAVERAS	464	15	3.2%	15	3.2%	0	0.0%	0	0.0%
COLUSA	414	0	0.0%	0	0.0%	0	0.0%	0	0.0%
CONTRA COSTA	15,292	42	0.3%	19	0.1%	23	0.2%	0	0.0%
DEL NORTE	368	1	0.3%	1	0.3%	0	0.0%	0	0.0%
EL DORADO	2,360	113	4.8%	109	4.6%	4	0.2%	0	0.0%
FRESNO	18,573	178	1.0%	150	0.8%	23	0.1%	5	0.0%
GLENN	510	0	0.0%	0	0.0%	0	0.0%	0	0.0%
HUMBOLDT	1,762	52	3.0%	48	2.7%	4	0.2%	0	0.0%
IMPERIAL	3,362	8	0.2%	0	0.0%	8	0.2%	0	0.0%
INYO	221	0	0.0%	0	0.0%	0	0.0%	0	0.0%
KERN	17,580	77	0.4%	8	0.0%	29	0.2%	40	0.2%
KINGS	2,678	0	0.0%	0	0.0%	0	0.0%	0	0.0%
LAKE	850	6	0.7%	4	0.5%	2	0.2%	0	0.0%
LASSEN	326	1	0.3%	0	0.0%	1	0.3%	0	0.0%
LOS ANGELES	140,822	1,601	1.1%	1,192	0.8%	321	0.2%	88	0.1%
MADERA	2,778	34	1.2%	13	0.5%	21	0.8%	0	0.0%
MARIN	3,259	4	0.1%	0	0.0%	4	0.1%	0	0.0%
MARIPOSA	150	3	2.0%	3	2.0%	0	0.0%	0	0.0%
MENDOCINO	1,305	7	0.5%	5	0.4%	2	0.2%	0	0.0%
MERCED	5,421	33	0.6%	0	0.0%	33	0.6%	0	0.0%
MODOC	115	0	0.0%	0	0.0%	0	0.0%	0	0.0%
MONO	166	0	0.0%	0	0.0%	0	0.0%	0	0.0%
MONTEREY	7,161	7	0.1%	0	0.0%	0	0.0%	7	0.1%
NAPA	1,768	6	0.3%	0	0.0%	0	0.0%	6	0.3%
NEVADA	913	55	6.0%	47	5.1%	8	0.9%	0	0.0%

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018
TABLE 10: NUMBER AND PERCENTAGE OF OTHER STUDENTS LACKING REQUIRED IMMUNIZATIONS† IN 2017-2018
BY SUBGROUP AND COUNTY

	TOTAL STUDENTS	OTHERS LACKING REQUIRED IMMUNIZATIONS†		OTHERS LACKING REQUIRED IMMUNIZATIONS†					
				INDEPENDENT STUDY		IEP SERVICES		HOME-BASED PRIVATE SCHOOL	
	NUMBER	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	564,121	6,072	1.1%	4,399	0.8%	1,133	0.2%	540	0.1%
COUNTY									
ORANGE	42,375	235	0.6%	94	0.2%	127	0.3%	14	0.0%
PLACER	6,296	89	1.4%	75	1.2%	14	0.2%	0	0.0%
PLUMAS	193	3	1.6%	3	1.6%	0	0.0%	0	0.0%
RIVERSIDE	35,453	146	0.4%	79	0.2%	43	0.1%	24	0.1%
SACRAMENTO	21,508	343	1.6%	236	1.1%	103	0.5%	4	0.0%
SAN BENITO	1,019	0	0.0%	0	0.0%	0	0.0%	0	0.0%
SAN BERNARDINO	33,825	311	0.9%	171	0.5%	50	0.1%	90	0.3%
SAN DIEGO	47,174	1,401	3.0%	1,244	2.6%	80	0.2%	77	0.2%
SAN FRANCISCO	6,701	0	0.0%	0	0.0%	0	0.0%	0	0.0%
SAN JOAQUIN	12,582	106	0.8%	66	0.5%	30	0.2%	10	0.1%
SAN LUIS OBISPO	3,074	18	0.6%	3	0.1%	14	0.5%	1	0.0%
SAN MATEO	9,361	8	0.1%	4	0.0%	4	0.0%	0	0.0%
SANTA BARBARA	6,632	44	0.7%	37	0.6%	2	0.0%	5	0.1%
SANTA CLARA	26,410	33	0.1%	0	0.0%	31	0.1%	2	0.0%
SANTA CRUZ	3,565	145	4.1%	136	3.8%	9	0.3%	0	0.0%
SHASTA	2,526	67	2.7%	51	2.0%	11	0.4%	5	0.2%
SIERRA	39	0	0.0%	0	0.0%	0	0.0%	0	0.0%
SISKIYOU	564	22	3.9%	21	3.7%	1	0.2%	0	0.0%
SOLANO	5,534	7	0.1%	6	0.1%	1	0.0%	0	0.0%
SONOMA	6,645	117	1.8%	6	0.1%	10	0.2%	101	1.5%
STANISLAUS	8,858	29	0.3%	0	0.0%	16	0.2%	13	0.1%
SUTTER	2,152	426	19.8%	410	19.1%	9	0.4%	7	0.3%
TEHAMA	1,033	8	0.8%	7	0.7%	1	0.1%	0	0.0%
TRINITY	71	2	2.8%	0	0.0%	2	2.8%	0	0.0%
TULARE	9,450	39	0.4%	30	0.3%	9	0.1%	0	0.0%
TUOLUMNE	620	15	2.4%	7	1.1%	2	0.3%	6	1.0%
VENTURA	12,056	101	0.8%	45	0.4%	22	0.2%	34	0.3%
YOLO	2,779	2	0.1%	0	0.0%	2	0.1%	0	0.0%
YUBA	1,420	24	1.7%	15	1.1%	9	0.6%	0	0.0%

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018

TABLE 11: NUMBER AND PERCENTAGE OF STUDENTS WITH OVERDUE STATUS^ IN 2017-2018 AND 2016-2017,
AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018			2016-2017			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	OVERDUE^	PERCENT	TOTAL STUDENTS	OVERDUE^	PERCENT	PERCENT	OVERDUE^
STATE TOTAL	564,121	6,920	1.2%	562,924	5,650	1.0%	0.2%	1,270
COUNTY								
ALAMEDA	22,307	245	1.1%	21,910	209	1.0%	0.1%	36
ALPINE	6	<20*	--*	6	<20*	--*	--*	--*
AMADOR	376	4	1.1%	290	0	0.0%	1.1%	4
BUTTE	2,899	9	0.3%	2,814	17	0.6%	-0.3%	-8
CALAVERAS	464	1	0.2%	462	0	0.0%	0.2%	1
COLUSA	414	2	0.5%	411	7	1.7%	-1.2%	-5
CONTRA COSTA	15,292	152	1.0%	15,434	75	0.5%	0.5%	77
DEL NORTE	368	0	0.0%	401	0	0.0%	0.0%	0
EL DORADO	2,360	1	0.0%	2,205	3	0.1%	-0.1%	-2
FRESNO	18,573	252	1.4%	18,779	123	0.7%	0.7%	129
GLENN	510	3	0.6%	481	2	0.4%	0.2%	1
HUMBOLDT	1,762	14	0.8%	1,799	14	0.8%	0.0%	0
IMPERIAL	3,362	37	1.1%	3,254	43	1.3%	-0.2%	-6
INYO	221	1	0.5%	212	3	1.4%	-1.0%	-2
KERN	17,580	829	4.7%	16,497	114	0.7%	4.0%	715
KINGS	2,678	11	0.4%	2,731	9	0.3%	0.1%	2
LAKE	850	3	0.4%	840	2	0.2%	0.1%	1
LASSEN	326	0	0.0%	357	0	0.0%	0.0%	0
LOS ANGELES	140,822	2,402	1.7%	140,269	2,734	1.9%	-0.2%	-332
MADERA	2,778	61	2.2%	2,835	41	1.4%	0.7%	20
MARIN	3,259	14	0.4%	3,245	15	0.5%	0.0%	-1
MARIPOSA	150	3	2.0%	19	<20*	--*	--*	--*
MENDOCINO	1,305	81	6.2%	1,195	8	0.7%	5.5%	73
MERCED	5,421	50	0.9%	5,618	24	0.4%	0.5%	26
MODOC	115	0	0.0%	130	0	0.0%	0.0%	0
MONO	166	1	0.6%	139	0	0.0%	0.6%	1
MONTEREY	7,161	57	0.8%	7,221	37	0.5%	0.3%	20
NAPA	1,768	9	0.5%	1,702	0	0.0%	0.5%	9
NEVADA	913	3	0.3%	944	1	0.1%	0.2%	2

^ Overdue for one or more immunizations.

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018

TABLE 11: NUMBER AND PERCENTAGE OF STUDENTS WITH OVERDUE STATUS^ IN 2017-2018 AND 2016-2017,
AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018			2016-2017			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	OVERDUE^	PERCENT	TOTAL STUDENTS	OVERDUE^	PERCENT	PERCENT	OVERDUE^
STATE TOTAL	564,121	6,920	1.2%	562,924	5,650	1.0%	0.2%	1,270
COUNTY								
ORANGE	42,375	271	0.6%	42,389	256	0.6%	0.0%	15
PLACER	6,296	46	0.7%	5,847	83	1.4%	-0.7%	-37
PLUMAS	193	1	0.5%	166	0	0.0%	0.5%	1
RIVERSIDE	35,453	324	0.9%	36,132	356	1.0%	-0.1%	-32
SACRAMENTO	21,508	198	0.9%	21,993	134	0.6%	0.3%	64
SAN BENITO	1,019	0	0.0%	967	6	0.6%	-0.6%	-6
SAN BERNARDINO	33,825	225	0.7%	34,471	331	1.0%	-0.3%	-106
SAN DIEGO	47,174	331	0.7%	46,044	247	0.5%	0.2%	84
SAN FRANCISCO	6,701	178	2.7%	6,742	120	1.8%	0.9%	58
SAN JOAQUIN	12,582	138	1.1%	12,572	40	0.3%	0.8%	98
SAN LUIS OBISPO	3,074	19	0.6%	3,154	9	0.3%	0.3%	10
SAN MATEO	9,361	120	1.3%	9,608	104	1.1%	0.2%	16
SANTA BARBARA	6,632	19	0.3%	6,674	2	0.0%	0.3%	17
SANTA CLARA	26,410	397	1.5%	26,070	207	0.8%	0.7%	190
SANTA CRUZ	3,565	23	0.6%	3,681	14	0.4%	0.3%	9
SHASTA	2,526	7	0.3%	2,386	15	0.6%	-0.4%	-8
SIERRA	39	0	0.0%	23	0	0.0%	0.0%	0
SISKIYOU	564	8	1.4%	520	1	0.2%	1.2%	7
SOLANO	5,534	18	0.3%	5,919	49	0.8%	-0.5%	-31
SONOMA	6,645	78	1.2%	6,669	39	0.6%	0.6%	39
STANISLAUS	8,858	80	0.9%	9,166	50	0.5%	0.4%	30
SUTTER	2,152	13	0.6%	1,995	6	0.3%	0.3%	7
TEHAMA	1,033	4	0.4%	1,024	0	0.0%	0.4%	4
TRINITY	71	1	1.4%	144	2	1.4%	0.0%	-1
TULARE	9,450	20	0.2%	9,243	15	0.2%	0.0%	5
TUOLUMNE	620	21	3.4%	570	10	1.8%	1.6%	11
VENTURA	12,056	72	0.6%	12,247	53	0.4%	0.2%	19
YOLO	2,779	11	0.4%	2,830	7	0.2%	0.1%	4
YUBA	1,420	52	3.7%	1,478	13	0.9%	2.8%	39

† Overdue for one or more immunizations.

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018
TABLE 12: NUMBER AND PERCENTAGE OF STUDENTS WITH REQUIRED IMMUNIZATIONS BY VACCINE SERIES,
BY COUNTY

	TOTAL STUDENTS	DTP 4+		POLIO 3+		MMR 2		HEP B 3+		VAR 1+	
	NUMBER	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	564,121	543,839	96.4%	546,328	96.8%	546,451	96.9%	550,821	97.6%	554,016	98.2%
COUNTY											
ALAMEDA	22,307	21,866	98.0%	21,951	98.4%	21,946	98.4%	21,995	98.6%	22,157	99.3%
ALPINE	6	<20*	--*	<20*	--*	<20*	--*	<20*	--*	<20*	--*
AMADOR	376	351	93.4%	357	94.9%	358	95.2%	359	95.5%	364	96.8%
BUTTE	2,899	2,792	96.3%	2,804	96.7%	2,789	96.2%	2,822	97.3%	2,849	98.3%
CALAVERAS	464	416	89.7%	423	91.2%	421	90.7%	425	91.6%	434	93.5%
COLUSA	414	408	98.6%	408	98.6%	413	99.8%	≥413	>99%	≥413	>99%
CONTRA COSTA	15,292	14,946	97.7%	14,978	97.9%	14,995	98.1%	15,087	98.7%	15,147	99.1%
DEL NORTE	368	360	97.8%	361	98.1%	364	98.9%	362	98.4%	366	99.5%
EL DORADO	2,360	2,147	91.0%	2,162	91.6%	2,165	91.7%	2,180	92.4%	2,209	93.6%
FRESNO	18,573	17,986	96.8%	18,088	97.4%	18,124	97.6%	18,309	98.6%	18,359	98.8%
GLENN	510	503	98.6%	504	98.8%	508	99.6%	505	99.0%	508	99.6%
HUMBOLDT	1,762	1,633	92.7%	1,623	92.1%	1,622	92.1%	1,633	92.7%	1,654	93.9%
IMPERIAL	3,362	3,310	98.5%	3,321	98.8%	3,305	98.3%	3,342	99.4%	3,347	99.6%
INYO	221	218	98.6%	219	99.1%	218	98.6%	218	98.6%	219	99.1%
KERN	17,580	16,517	94.0%	16,685	94.9%	16,673	94.8%	16,923	96.3%	17,014	96.8%
KINGS	2,678	2,625	98.0%	2,656	99.2%	2,658	99.3%	2,660	99.3%	2,673	99.8%
LAKE	850	808	95.1%	825	97.1%	825	97.1%	829	97.5%	838	98.6%
LASSEN	326	312	95.7%	313	96.0%	312	95.7%	316	96.9%	318	97.5%
LOS ANGELES	140,822	135,808	96.4%	136,321	96.8%	136,409	96.9%	137,773	97.8%	138,528	98.4%
MADERA	2,778	2,668	96.0%	2,681	96.5%	2,695	97.0%	2,708	97.5%	2,731	98.3%
MARIN	3,259	3,145	96.5%	3,136	96.2%	3,156	96.8%	3,143	96.4%	3,184	97.7%
MARIPOSA	150	137	91.3%	139	92.7%	137	91.3%	139	92.7%	141	94.0%
MENDOCINO	1,305	1,161	89.0%	1,162	89.0%	1,189	91.1%	1,192	91.3%	1,247	95.6%
MERCED	5,421	5,298	97.7%	5,316	98.1%	5,304	97.8%	5,377	99.2%	5,385	99.3%
MODOC	115	≥114	≥99%	≥114	≥99%	≥114	≥99%	≥114	≥99%	≥114	≥99%
MONO	166	156	94.0%	155	93.4%	155	93.4%	154	92.8%	158	95.2%
MONTEREY	7,161	7,034	98.2%	7,054	98.5%	7,044	98.4%	7,082	98.9%	7,108	99.3%
NAPA	1,768	1,702	96.3%	1,721	97.3%	1,716	97.1%	1,718	97.2%	1,734	98.1%
NEVADA	913	769	84.2%	785	86.0%	776	85.0%	789	86.4%	795	87.1%

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018
TABLE 12: NUMBER AND PERCENTAGE OF STUDENTS WITH REQUIRED IMMUNIZATIONS BY VACCINE SERIES,
BY COUNTY

	TOTAL STUDENTS	DTP 4+		POLIO 3+		MMR 2		HEP B 3+		VAR 1+	
	NUMBER	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	564,121	543,839	96.4%	546,328	96.8%	546,451	96.9%	550,821	97.6%	554,016	98.2%
COUNTY											
ORANGE	42,375	41,120	97.0%	41,251	97.3%	41,227	97.3%	41,588	98.1%	41,814	98.7%
PLACER	6,296	5,946	94.4%	5,970	94.8%	5,965	94.7%	6,022	95.6%	6,071	96.4%
PLUMAS	193	186	96.4%	187	96.9%	186	96.4%	189	97.9%	191	99.0%
RIVERSIDE	35,453	34,554	97.5%	34,755	98.0%	34,750	98.0%	34,916	98.5%	35,118	99.1%
SACRAMENTO	21,508	20,380	94.8%	20,614	95.8%	20,642	96.0%	20,811	96.8%	21,006	97.7%
SAN BENITO	1,019	1,008	98.9%	1,010	99.1%	1,008	98.9%	1,007	98.8%	1,011	99.2%
SAN BERNARDINO	33,825	32,903	97.3%	33,094	97.8%	33,139	98.0%	33,271	98.4%	33,484	99.0%
SAN DIEGO	47,174	44,643	94.6%	44,848	95.1%	44,832	95.0%	45,256	95.9%	45,595	96.7%
SAN FRANCISCO	6,701	6,434	96.0%	6,434	96.0%	6,466	96.5%	6,484	96.8%	6,538	97.6%
SAN JOAQUIN	12,582	12,210	97.0%	12,311	97.8%	12,299	97.8%	12,363	98.3%	12,441	98.9%
SAN LUIS OBISPO	3,074	2,952	96.0%	2,950	96.0%	2,973	96.7%	2,990	97.3%	3,011	98.0%
SAN MATEO	9,361	9,155	97.8%	9,181	98.1%	9,173	98.0%	9,253	98.8%	9,281	99.1%
SANTA BARBARA	6,632	6,475	97.6%	6,496	97.9%	6,486	97.8%	6,512	98.2%	6,548	98.7%
SANTA CLARA	26,410	25,816	97.8%	25,902	98.1%	25,857	97.9%	26,099	98.8%	26,142	99.0%
SANTA CRUZ	3,565	3,310	92.8%	3,313	92.9%	3,294	92.4%	3,313	92.9%	3,368	94.5%
SHASTA	2,526	2,325	92.0%	2,341	92.7%	2,348	93.0%	2,376	94.1%	2,407	95.3%
SIERRA	39	≥38	≥97%	≥38	≥97%	≥38	≥97%	≥38	≥97%	≥38	≥97%
SISKIYOU	564	523	92.7%	525	93.1%	525	93.1%	527	93.4%	533	94.5%
SOLANO	5,534	5,430	98.1%	5,454	98.6%	5,462	98.7%	5,483	99.1%	5,510	99.6%
SONOMA	6,645	6,238	93.9%	6,248	94.0%	6,251	94.1%	6,290	94.7%	6,330	95.3%
STANISLAUS	8,858	8,588	97.0%	8,623	97.3%	8,616	97.3%	8,691	98.1%	8,675	97.9%
SUTTER	2,152	1,783	82.9%	1,789	83.1%	1,771	82.3%	1,866	86.7%	1,881	87.4%
TEHAMA	1,033	998	96.6%	1,002	97.0%	1,014	98.2%	1,013	98.1%	1,018	98.5%
TRINITY	71	62	87.3%	62	87.3%	63	88.7%	64	90.1%	66	93.0%
TULARE	9,450	9,326	98.7%	9,367	99.1%	9,353	99.0%	9,389	99.4%	9,401	99.5%
TUOLUMNE	620	553	89.2%	557	89.8%	565	91.1%	574	92.6%	576	92.9%
VENTURA	12,056	11,695	97.0%	11,714	97.2%	11,720	97.2%	11,784	97.7%	11,841	98.2%
YOLO	2,779	2,666	95.9%	2,679	96.4%	2,676	96.3%	2,694	96.9%	2,726	98.1%
YUBA	1,420	1,326	93.4%	1,344	94.6%	1,358	95.6%	1,383	97.4%	1,392	98.0%

* County reporting fewer than 20 children in kindergarten.